



**โครงการ หนึ่งอาจารย์ หนึ่งผลงาน 2545**  
**มหาวิทยาลัยเทคโนโลยีสุรนารี**

**บทเรียนคอมพิวเตอร์ช่วยสอนวิชาภาษาอังกฤษ 2 (203102)**

**Computer Aided Instruction Programme – CAI**

**โดย**

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## บทเรียนคอมพิวเตอร์ช่วยสอนวิชาภาษาอังกฤษ 2 (203102)

### Computer Aided Instruction Programme - CAI

#### บทนำ

มหาวิทยาลัยเทคโนโลยีสุรนารีเป็นมหาวิทยาลัยที่ส่งเสริมการบูรณาการ (Integration) วิทยาการด้านต่างๆ เพื่อนำมาซึ่งความเป็นเลิศในการประสานภารกิจ นโยบายหลักของสาขาวิชาภาษาอังกฤษ สำนักวิชาเทคโนโลยีสังคม ในการจัดการเรียนการสอนจึงส่งเสริมและสนับสนุนให้มีการใช้เทคโนโลยีเพื่อช่วยให้เกิดประสิทธิภาพในการเรียนอย่างสูงสุด หลักสูตรการเรียนการสอนภาษาอังกฤษในระดับปริญญาตรีที่ มทส. จึงประกอบไปด้วยการเรียนในห้องเรียนตามปกติ และการเรียนในชั่วโมงปฏิบัติการคอมพิวเตอร์ ในอัตราส่วน 2:1 กล่าวคือ นักศึกษาดำเนินการเรียนภาษาอังกฤษในห้องเรียนปกติ 2 ชั่วโมง/สัปดาห์ และในห้องปฏิบัติการคอมพิวเตอร์ 1 ชั่วโมง/สัปดาห์ โดยมุ่งหวังให้นักศึกษาได้ใช้เวลาในห้องปฏิบัติการคอมพิวเตอร์เพื่อฝึกฝนทักษะภาษาอังกฤษเพิ่มเติม นอกจากนี้ ยังเป็นการส่งเสริมให้นักศึกษาเป็นผู้เรียนที่ตื่นตัวเลือกสิ่งที่อยากเรียน และรู้จักการจัดลำดับการเรียนเพื่อให้เกิดการเรียนรู้อย่างสูงสุด แนวโน้มการเรียนการสอนดังกล่าวเป็นแนวทางปฏิบัติในการสอนภาษาอังกฤษที่ใช้กันอยู่อย่างแพร่หลายอีกทั้งยังสอดคล้องกับนโยบายส่งเสริมการปฏิรูปการศึกษาในประเทศไทยที่มุ่งเน้นผู้เรียนเป็นศูนย์กลาง (Student-Centered Classroom)

#### วัตถุประสงค์

การจัดทำบทเรียนคอมพิวเตอร์ช่วยสอนภาษาอังกฤษ (CAI) ในรายวิชาภาษาอังกฤษ 2 นี้ จัดทำขึ้นเพื่อให้นักศึกษาได้ฝึกฝนทักษะภาษาอังกฤษเพิ่มเติมนอกเหนือจากที่เรียนในห้องเรียนตามปกติ อีกทั้งยังปรับปรุงบทเรียนเดิมให้ทันสมัยและเหมาะสมกับสถานการณ์ในปัจจุบัน

#### โปรแกรมคอมพิวเตอร์ที่ใช้

Authorware 4.0

## 1. โครงสร้างและองค์ประกอบของบทเรียน CAI

บทเรียน CAI นี้มีความสอดคล้องในแง่ของเนื้อหาที่บรรจุในรูปเอกสารการสอนที่เป็นสื่อสิ่งพิมพ์ ที่ใช้เป็นเอกสารการสอนในห้องเรียนปกติ กล่าวคือ ประกอบด้วย บทเรียน 5 บทที่มีเนื้อหาเน้นวิทยาการ 5 เรื่อง ได้แก่

บทที่ 1	Information Technology
บทที่ 2	Biology
บทที่ 3	Environment
บทที่ 4	Energy and Transportation
บทที่ 5	Agriculture

แต่ละบทประกอบด้วยแบบฝึกหัดเพิ่มเติมที่นักศึกษาสามารถศึกษาเพิ่มเติมด้วยตนเอง ดังต่อไปนี้

### การอ่าน (Reading)

เนื้อหาหรือเรื่องราวที่นำมาให้อ่านส่วนใหญ่มาจากสิ่งตีพิมพ์บน Internet ในหัวข้อเรื่อง (Theme) ที่กำหนดเป็นชื่อบทเรียน เช่น ในบท Information Technology เรื่องที่อ่านจะเกี่ยวข้องกับ Internet ในแง่มุมต่างๆ หรือ ในบท Biology นักศึกษาจะได้อ่านเรื่องลักษณะของป่าไม้ หรือถิ่นที่อยู่อาศัยของสัตว์นอกเหนือจากป่า การอ่านในเรื่องราวที่หลากหลายแต่อยู่ในวิทยาการเดียวกันนั้นช่วยให้นักศึกษาสามารถเรียนรู้คำศัพท์ได้ดีขึ้นกว่าวิธีเดิมที่ท่องศัพท์ที่อาจไม่เกี่ยวข้องกันแต่อย่างใด แบบฝึกหัดการอ่านในรูปแบบ CAI นี้มุ่งเน้นให้นักศึกษาใช้ความคิดอย่างแท้จริง ดังนั้นแบบฝึกหัดที่สร้างขึ้นจึงมักอยู่ในรูปของการเขียนตอบ (Written answer) มากกว่าการเลือกตอบ (Multiple Choice) คำเฉลยที่สร้างขึ้นในบางครั้งจึงเป็นเพียงแนวทางในการตอบคำถามเท่านั้น ไม่ใช่คำตอบเดียวที่เป็นไปได้

### ไวยากรณ์ และการเขียน (Grammar and Writing)

แบบฝึกหัดไวยากรณ์ และการเขียน สอดคล้องกับ ไวยากรณ์ที่ปรากฏในเอกสารการสอนที่ใช้ในห้องเรียน โดยส่วนใหญ่จะมีคำอธิบายการใช้หรือแบบฝึกหัดให้นักศึกษาได้ลงทำตาม เช่นเดียวกับแบบฝึกหัดการอ่าน แบบฝึกหัดไวยากรณ์เน้นการเขียนคำตอบมากกว่าการเลือกคำตอบ ทั้งนี้เพื่อเป็นการกระตุ้นให้นักศึกษานึกการเขียนรู้อย่างแท้จริง

## คำศัพท์ (Vocabulary)

คำศัพท์ที่นำมาทบทวนในบทเรียน CAI เป็นคำศัพท์ที่นักศึกษาได้เรียนแล้วจากบทเรียนในห้องเรียนทั้งสิ้น แบบฝึกหัดคำศัพท์เน้นการนำบริบทที่เกี่ยวข้องกับหัวข้อเรื่องที่เป็นข้อบทเรียน

## การฟัง (Listening)

บทเรียน Listening นั้น เป็นบทเรียนชนิดเดียวที่ไม่มีแบบฝึกหัดการฟังปรากฏอยู่ใน CAI ทั้งนี้เนื่องจากแบบฝึกหัดดังกล่าวได้บรรจุอยู่ในเอกสารการสอนที่ใช้ในห้องเรียนปกติ เพื่อให้นักศึกษาสามารถฝึกฝนทักษะการฟังได้บ่อยเท่าที่จำเป็นจึงได้นำเฉพาะไฟล์เสียงมาบรรจุไว้ในห้องปฏิบัติการคอมพิวเตอร์ (ดูภาคผนวก)

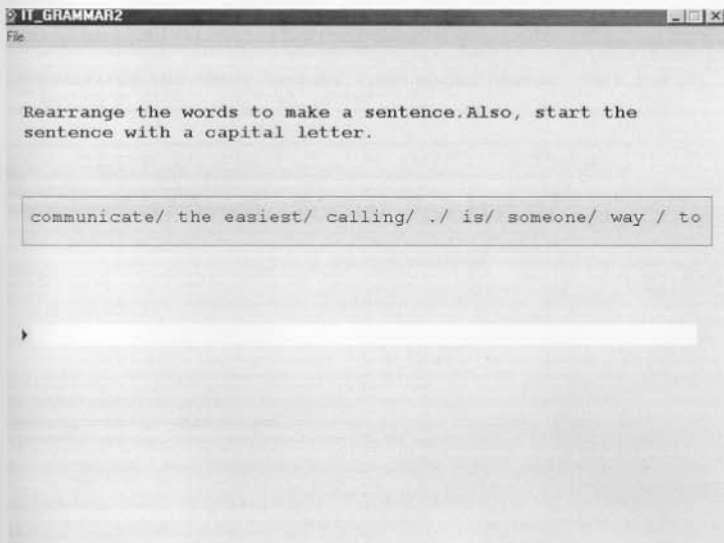
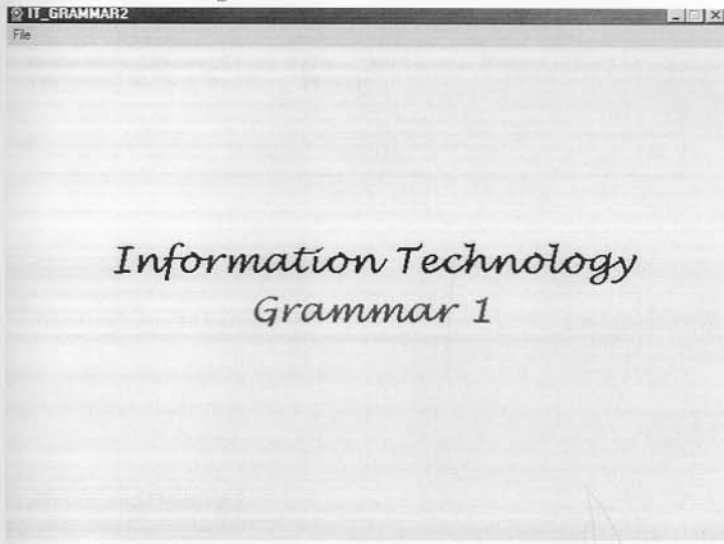
## การออกเสียง (Pronunciation)

ปัญหาการออกเสียงเป็นปัญหาใหญ่สำหรับนักศึกษาทั่วไป การใช้บทเรียน CAI บันทึกเสียงของเจ้าของภาษาช่วยให้นักศึกษาได้เลียนแบบและรู้ถึงธรรมชาติการออกเสียงในภาษาอังกฤษได้เป็นอย่างดี โดยที่ไม่ต้องรอคั่นแนะนำจากครูผู้สอน โครงสร้างภายในของบทเรียนออกเสียงประกอบด้วยคำศัพท์ที่เป็นคำสำคัญ (Key Words) ในแต่ละบทซึ่งสอดคล้องกับหัวข้อเรื่อง นักศึกษาสามารถฝึกออกเสียงตาม ได้โดยฟังเสียงของเจ้าของภาษา และยังสามารถสังเกตวิธีการออกเสียง ได้จากสัญลักษณ์เสียงที่ประยุกต์ ให้เหมาะสมกับนักศึกษาซึ่งไม่คุ้นเคยกับระบบการออกเสียงแบบสากล (ดูภาคผนวก)

ทักษะเขียนที่เขียน CAI

บทที่ 1 Information Technology

## Grammar and Writing



IT\_GRAMMAR2

File

Rearrange the words to make a sentence. Always start a sentence with a capital letter.

someone/ days / ./ take/ sending/ a/ can/ letter/ a few

IT\_GRAMMAR2

File

Rearrange the words to make a sentence. Always start the sentence with a capital letter.

can/ sending/ fax/ ./ a/ very/ be/ expensive

IT\_GRAMMAR2

File

Rearrange the words to make a sentence. Always start the sentence with a capital letter.

the Internet phone/ can/ using/ very/ ./ be/ cheap

▶

IT\_GRAMMAR2

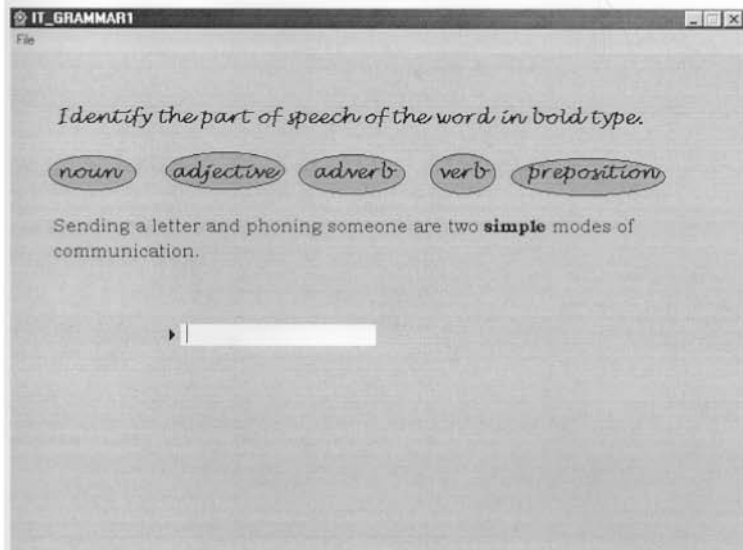
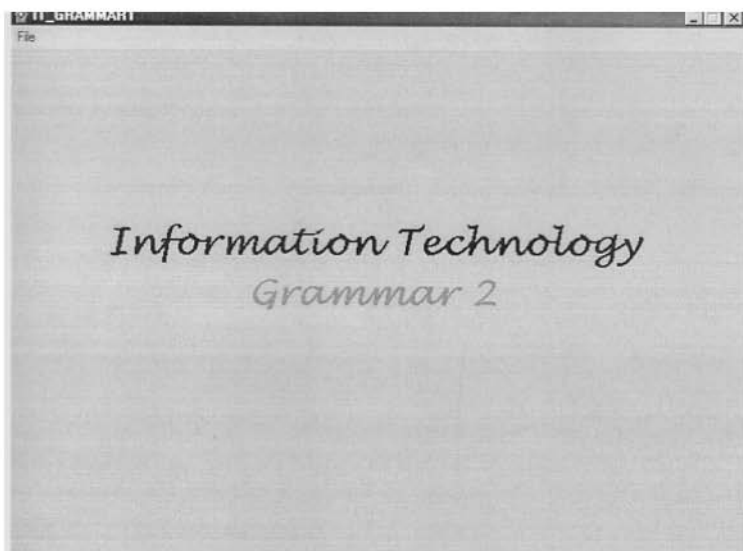
File

Rearrange the words to make a sentence. Always start the sentence with a capital letter.

is/ email/ popular/ to/ way/ ./ communicate/ nowadays/a

▶





IT\_GRAMMAR1

File

Identify the part of speech of the word in bold type.

noun   adjective   adverb   verb   preposition

The Internet phone is one of the most recent **innovations**.

▶

IT\_GRAMMAR1

File

Identify the part of speech of the word in bold type.

noun   adjective   adverb   verb   preposition

The Internet has many **important** features.

▶

IT\_GRAMMARI

File

*Identify the part of speech of the word in bold type.*

noun   adjective   adverb   verb   preposition

People can connect with each other more easily **through** the Internet.

▶

IT\_GRAMMARI

File

*Identify the part of speech of the word in bold type.*

noun   adjective   adverb   verb   preposition

People can connect with each other more **easily** through the Internet.

▶

IT\_GRAMMAR1

File

Identify the part of speech of the word in bold type.

noun   adjective   adverb   verb   preposition

People use the Internet to **search** for information.

▶

IT\_GRAMMAR1

File

Identify the part of speech of the word in bold type.

noun   adjective   adverb   verb   preposition

Search engines are internet **tools** that help users to find the information they want.

▶

IT\_GRAMMAR

File

Identify the part of speech of the word in bold type.

noun adjective adverb verb preposition

More than 2,000 users **access** pantip.com everyday.

▶

IT\_GRAMMAR

File

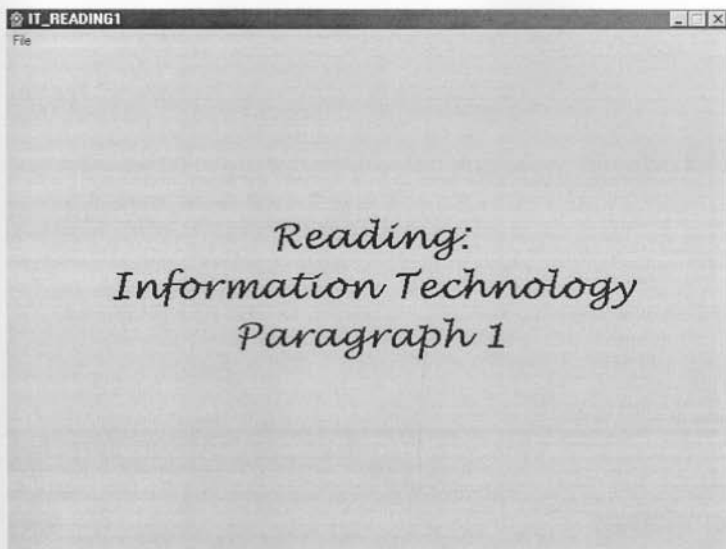
Identify the part of speech of the word in bold type.

noun adjective adverb verb preposition

Many people in rural areas in Thailand still do not have **access** to the Internet.

▶

## Reading



IT\_READING1

File

Reading 1

You can browse the Internet if you have a computer, phoneline, modem and an Internet Service Provider or an ISP. In order to do this, you must be familiar with such terms as HTML, HTTP, URL as well as others. If you learn how to use such computer languages and HTML and Java Scripts, you can publish your own information on a web page. Some people do not have time or opportunity to learn those languages so they use computer software to help them create a homepage. This software has made it possible for the average person to actively participate in the Internet. Therefore, doctors, professors, housewives and students are publishing anything from medical papers to recipes.

*Answer the question.*

What do you need to have in order to browse the Internet?

▶

IT\_READING1

File

Reading 1

You can browse the Internet if you have a computer, phonenumber, modem and an Internet Service Provider or an ISP. In order to do this, you must be familiar with such terms as HTML, HTTP, URL as well as others. If you learn how to use such computer languages and HTML and Java Scripts, you can publish your own information on a web page. Some people do not have time or opportunity to learn those languages so they use computer software to help them create a homepage. This software has made it possible for the average person to actively participate in the Internet. Therefore, doctors, professors, housewives and students are publishing anything from medical papers to recipes.

*Answer the question*

According to the paragraph, what is the fastest way to create a homepage?

▶

IT\_READING1

File

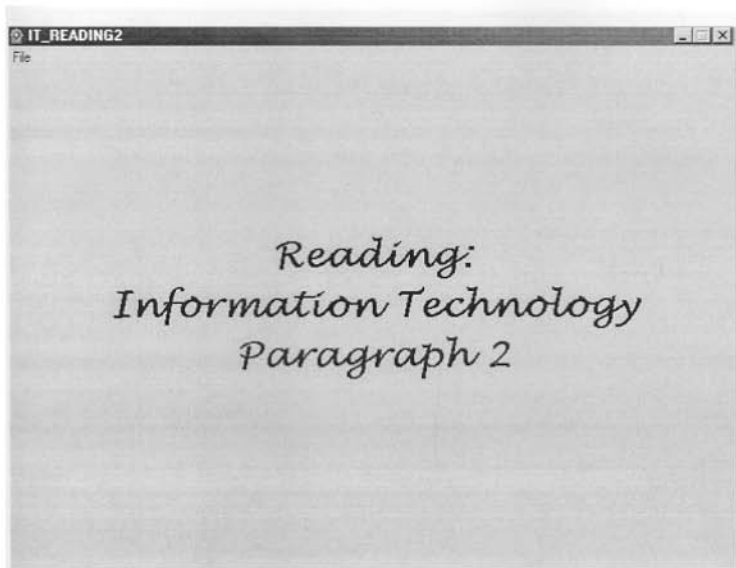
Reading 1

You can browse the Internet if you have a computer, phonenumber, modem and an Internet Service Provider or an ISP. In order to do this, you must be familiar with such terms as HTML, HTTP, URL as well as others. If you learn how to use such computer languages and HTML and Java Scripts, you can publish your own information on a web page. Some people do not have time or opportunity to learn those languages so they use computer software to help them create a homepage. This software has made it possible for the average person to actively participate in the Internet. Therefore, doctors, professors, housewives and students are publishing anything from medical papers to recipes.

*Answer the question*

According to the paragraph, what two languages you need to learn in order to publish your information on a web page?

▶



IT\_READING2

File

Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the Internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

What is the most popular use of the Internet?

▶



IT\_READING2

File

Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the Internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

Why is the Internet a useful source of information?

▶

IT\_READING2

File

Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the Internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

What advantage does the Internet have over a regular journal?

▶

## IT\_READING2



File

## Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the Internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

How can people find information quickly on the Internet?

▶

## IT\_READING2



File

## Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the Internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

According to this paragraph, how many benefits does the Internet have?

▶

IT\_READING2

File

Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the Internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

Which connector shows the **first** benefit of the Internet?

▶ | \_\_\_\_\_

IT\_READING2

File

Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the Internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

Which connector shows the **second** benefit of the Internet?

▶ | \_\_\_\_\_

IT\_READING2

File

Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

Which connector shows the **third** benefit of the Internet?

▶

IT\_READING2

File

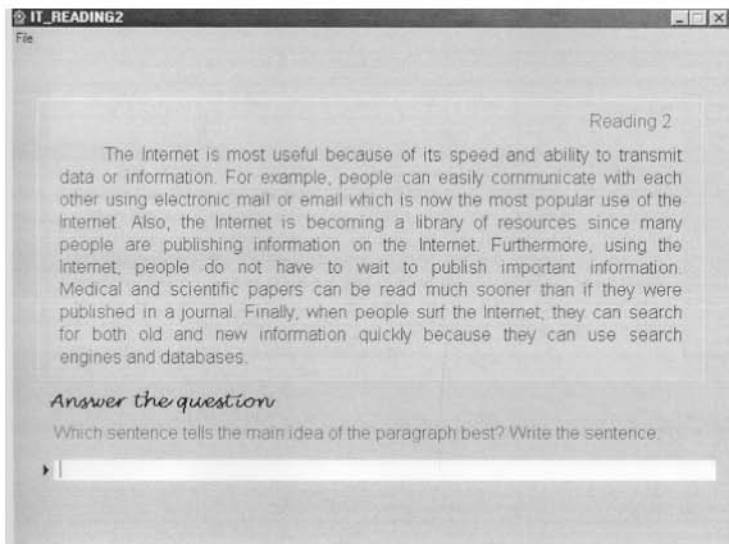
Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

Which connector shows the **last** benefit of the Internet?

▶



IT\_READING2

File

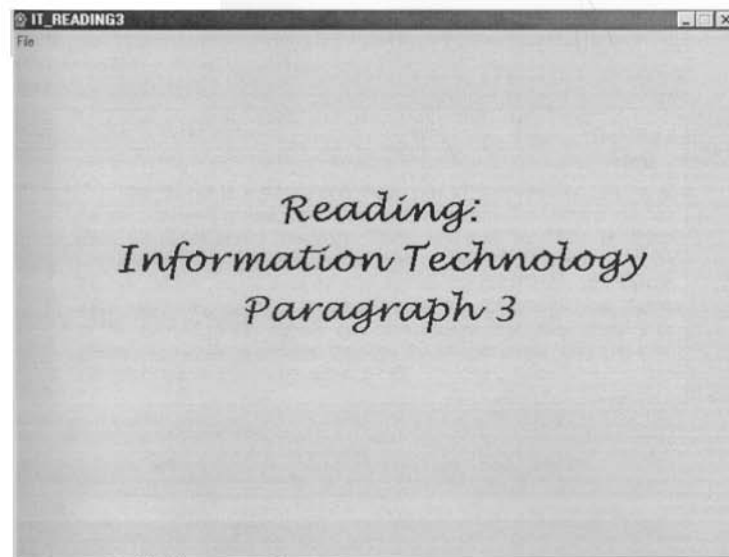
Reading 2

The Internet is most useful because of its speed and ability to transmit data or information. For example, people can easily communicate with each other using electronic mail or email which is now the most popular use of the Internet. Also, the Internet is becoming a library of resources since many people are publishing information on the Internet. Furthermore, using the Internet, people do not have to wait to publish important information. Medical and scientific papers can be read much sooner than if they were published in a journal. Finally, when people surf the Internet, they can search for both old and new information quickly because they can use search engines and databases.

*Answer the question*

Which sentence tells the main idea of the paragraph best? Write the sentence.

▶ | \_\_\_\_\_



IT\_READING3

File

*Reading:  
Information Technology  
Paragraph 3*

## IT\_READING3

File

## Reading 3

The Internet is a simple and cheap way to communicate. Millions of people use news groups, chat rooms as well as email to talk and discuss many kinds of topics everyday. There are now hundreds of group discussions which **they** can join for free on the Internet. Also, using the Internet, people do not have to print or mail any documents, so they can save money on buying a stamp and mailing the documents. Now, thanks to the Internet phone, people can save money when they phone their friends. This is because when they use the Internet phone, they can even talk without paying for a long-distance call.

*Answer the question*

How many ways of communication are available on the Internet?

## IT\_READING3

File

## Reading 3

The Internet is a simple and cheap way to communicate. Millions of people use news groups, chat rooms as well as email to talk and discuss many kinds of topics everyday. There are now hundreds of group discussions which **they** can join for free on the Internet. Also, using the Internet, people do not have to print or mail any documents, so they can save money on buying a stamp and mailing the documents. Now, thanks to the Internet phone, people can save money when they phone their friends. This is because when they use the Internet phone, they can even talk without paying for a long-distance call.

*Answer the question*

What are the four ways of communication available on the Internet?

IT\_READING3

File

Reading 3

The Internet is a simple and cheap way to communicate. Millions of people use news groups, chat rooms as well as email to talk and discuss many kinds of topics everyday. There are now hundreds of group discussions which they can join for free on the Internet. Also, using the Internet, people do not have to print or mail any documents, so they can save money on buying a stamp and mailing the documents. Now, thanks to the Internet phone, people can save money when they phone their friends. This is because when they use the Internet phone, they can even talk without paying for a long-distance call.

*Answer the question*

Do people have to pay when they join news groups?

▶

IT\_READING3

File

Reading 3

The Internet is a simple and cheap way to communicate. Millions of people use news groups, chat rooms as well as email to talk and discuss many kinds of topics everyday. There are now hundreds of group discussions which they can join for free on the Internet. Also, using the Internet, people do not have to print or mail any documents, so they can save money on buying a stamp and mailing the documents. Now, thanks to the Internet phone, people can save money when they phone their friends. This is because when they use the Internet phone, they can even talk without paying for a long-distance call.

*Answer the question*

How can the Internet help people save money on stamps?

▶

## IT\_READING3

## Reading 3

The Internet is a simple and cheap way to communicate. Millions of people use news groups, chat rooms as well as email to talk and discuss many kinds of topics everyday. There are now hundreds of group discussions which **they** can join for free on the Internet. Also, using the Internet, people do not have to print or mail any documents, so they can save money on buying a stamp and mailing the documents. Now, thanks to the Internet phone, people can save money when they phone their friends. This is because when they use the Internet phone, they can even talk without paying for a long-distance call.

*Answer the question*

How can the Internet phone help people save money on phone bills?

## IT\_READING3

## Reading 3

The Internet is a simple and cheap way to communicate. Millions of people use news groups, chat rooms as well as email to talk and discuss many kinds of topics everyday. There are now hundreds of group discussions which **they** can join for free on the Internet. Also, using the Internet, people do not have to print or mail any documents, so they can save money on buying a stamp and mailing the documents. Now, thanks to the Internet phone, people can save money when they phone their friends. This is because when they use the Internet phone, they can even talk without paying for a long-distance call.

*Answer the question*

What does 'they' in line 4 refer to?



IT\_READING3

File

Reading 3

The Internet is a simple and cheap way to communicate. Millions of people use news groups, chat rooms as well as email to talk and discuss many kinds of topics everyday. There are now hundreds of group discussions which they can join for free on the Internet. Also, using the Internet, people do not have to print or mail any documents, so they can save money on buying a stamp and mailing the documents. Now, thanks to the Internet phone, people can save money when they phone their friends. This is because when they use the Internet phone, they can even talk without paying for a long-distance call.

*Answer the question*

What is the main idea of this paragraph?

▶

IT\_READING4

File

*Reading:  
Information Technology  
Paragraph 4*

IT\_READING4

File

Reading 4

The history of the Internet is not long. It began 25 years ago as an experiment of the US defense department. In fact, it was not created for the personal use by the public regular people. The original goal for the Internet was for government agencies to communicate if there was a war. The important feature is that the Internet is not controlled by one person or computer. Therefore, it is difficult to destroy. In 1991, the Internet included 100 computers. Now, it includes half a millions. One reason for this growth is the development of multimedia transmission such as graphics, audios, and videos. This development was helped by the invention of a browser and hypertext. This has made the computer easier to use. Because of these developments, people can read magazines, buy products listen to the radio, play games and watch videos on the Internet.

*Answer the question*

What is the paragraph about?

▶

IT\_READING4

File

Reading 4

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*Answer the question*

What was the first use of the Internet?

▶

## IT\_READING4



File

## Reading 4

The history of the Internet is not long. It began 25 years ago as an experiment of the US defense department. In fact, it was not created for the personal use by the public regular people. The original goal for the internet was for government agencies to communicate if there was a war. The important feature is that the Internet is not controlled by one person or computer. Therefore, it is difficult to destroy. In 1991, the Internet included 100 computers. Now, it includes half a millions. One reason for this growth is the development of multimedia transmission such as graphics, audios, and videos. This development was helped by the invention of a browser and hypertext. This has made the computer easier to use. Because of these developments, people can read magazines, buy products listen to the radio, play games and watch videos on the Internet.

*Answer the question*

Why is the Internet difficult to destroy?

## IT\_READING4



File

## Reading 4

The history of the Internet is not long. It began 25 years ago as an experiment of the US defense department. In fact, it was not created for the personal use by the public regular people. The original goal for the Internet was for government agencies to communicate if there was a war. The important feature is that the Internet is not controlled by one person or computer. Therefore, it is difficult to destroy. In 1991, the Internet included 100 computers. Now, it includes half a millions. One reason for this growth is the development of multimedia transmission such as graphics, audios, and videos. This development was helped by the invention of a browser and hypertext. This has made the computer easier to use. Because of these developments, people can read magazines, buy products listen to the radio, play games and watch videos on the Internet.

*Answer the question*

What are the three examples of multimedia transmission mentioned in the text?

IT\_READING4

File

Reading 4

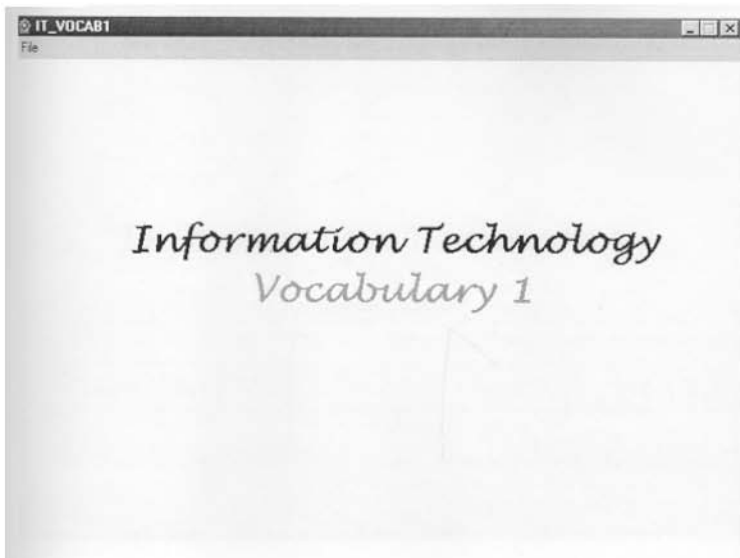
The history of the Internet is not long. It began 25 years ago as an experiment of the US defense department. In fact, it was not created for the personal use by the public regular people. The original goal for the Internet was for government agencies to communicate if there was a war. The important feature is that the Internet is not controlled by one person or computer. Therefore, it is difficult to destroy. In 1991, the Internet included 100 computers. Now, it includes half a millions. One reason for this growth is the development of multimedia transmission such as graphics, audios, and videos. This development was helped by the invention of a browser and hypertext. This has made the computer easier to use. Because of these developments, people can read magazines, buy products listen to the radio, play games and watch videos on the Internet.

*Answer the question*

What has made the Internet easier to use?

▶

## Vocabulary



IT\_VOCAB1

File

Look at the list of words given below and fill in the blanks with the appropriate words.

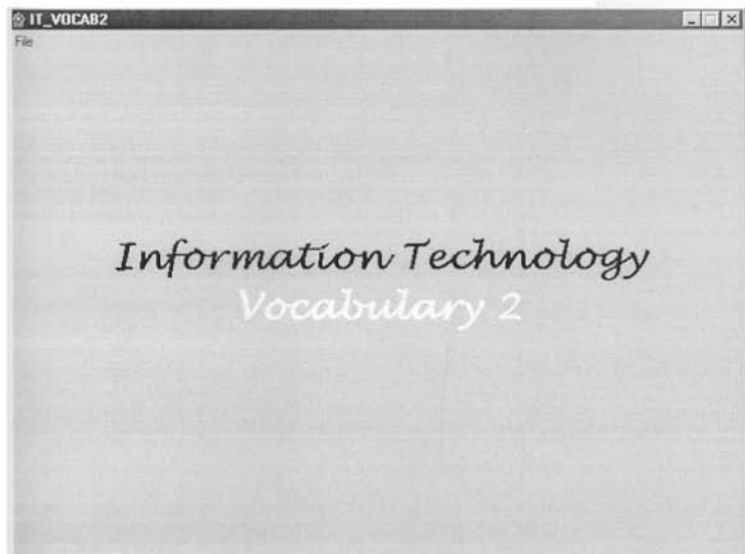
communicating  
cables  
chat  
website  
connect  
email  
browse  
server  
private  
address  
network

>From: sdumro@hotmail.com  
>To: nathsv@hotmail.com  
>Subject: Hello  
>Date: Sat, 12 Dec 98 18:07:06-00800 (PST)  
>

Dear Jeang

My friend, Lek went to study in America. We were best friends in high school. Now we use the computer to communicate. We usually send \_\_\_1\_\_\_ to each other every day but recently we have found new ways of \_\_\_2\_\_\_ with each other. Lek now has a \_\_\_3\_\_\_ so I can go there by typing in her URL \_\_\_4\_\_\_. I can \_\_\_5\_\_\_ her website to find out more about her life there. We also \_\_\_6\_\_\_ with each other in our own \_\_\_7\_\_\_ chat room. The problem is that sometimes our \_\_\_8\_\_\_ is down here so we cannot \_\_\_9\_\_\_ to the Internet or send any messages. Also, sometimes there is a problem with some of the wires or \_\_\_10\_\_\_ that make up the \_\_\_11\_\_\_ on campus. I am happy that I can communicate with my friend so easily though.

Bee.



IT\_VOCAB2

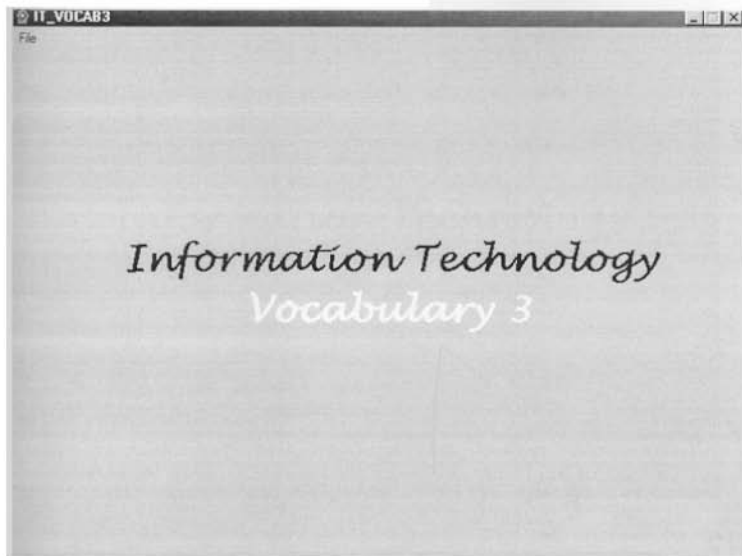
File

*Read each sentence carefully. Fill in each blank with an appropriate word.*

1. Internet telephoning is one of the new computer technologies that not many people are \_\_\_\_\_ with.
2. This computer is not an \_\_\_\_\_ machine. It has 128 Megabytes of RAM, a 500 MHz processor and 10 Gigabyte harddisk.
3. Most people now accept that computers are \_\_\_\_\_ because they make a lot of tasks easier and faster to do.
4. If you want to have \_\_\_\_\_ to the company databases, you need to have the password.
5. Central processing units or CPUs are the most important \_\_\_\_\_ of computers.

mode  
feature  
access  
familiar  
useful  
average

▶ \_\_\_\_\_



IT\_VOCAB3

File

*Read each sentence carefully. Fill in each blank with an appropriate word.*

1. Connecting to the Internet is very \_\_\_\_\_. All you need is a computer, a modem and an account with an ISP provider.

2. We can \_\_\_\_\_ information from one computer to another through a telephone line.

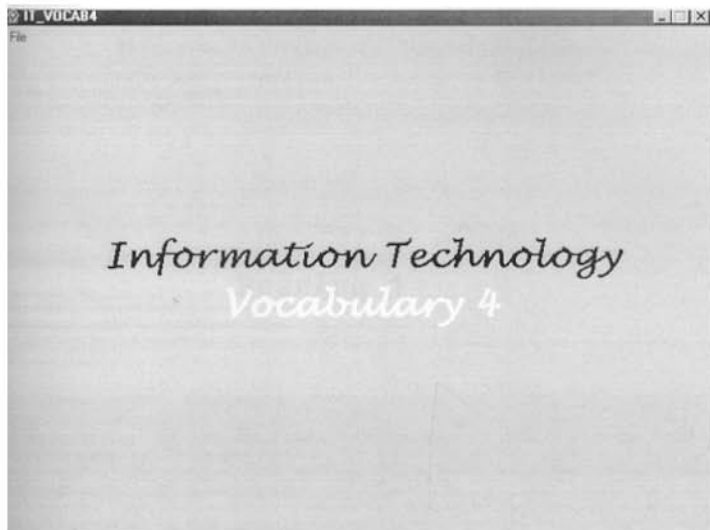
3. Access is a program that helps you to \_\_\_\_\_ databases.

4. You can choose the computer packages which \_\_\_\_\_ some free software such as Wordpad and Games.

5. The Internet is full of good \_\_\_\_\_ for the education of your children.

6. There is a lot of free software \_\_\_\_\_ on the Internet.

efficient  
available  
create  
resources  
simple  
transmit  
include



IT\_VOCAB4

File

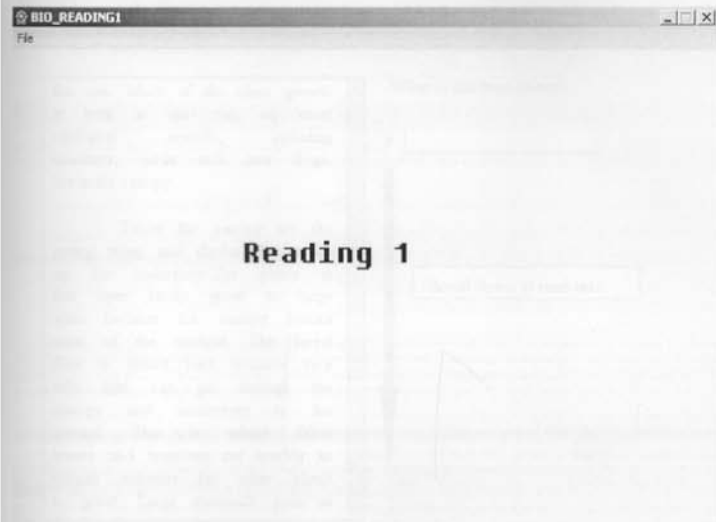
You can browse the Internet if you have a computer, phoneline, modem and an Internet Service Provider or an ISP. In order to do this, you must be familiar with such terms as HTML, HTTP, URL as well as others. If you learn how to use such computer languages and HTML and Java Scripts, you can publish your own information on a web page. Some people do not have time or opportunity to learn those languages so they use computer software to help them create a homepage. This software has made it possible for the average person to actively participate in the Internet. Therefore, doctors, professors, housewives and students are publishing anything from medical papers to recipes.

**Find the words in the paragraph above to match with the meanings below.**

1. look at => \_\_\_\_\_ 2. know a little bit about something = \_\_\_\_\_  
 3. technical words = \_\_\_\_\_ 4. print something for the public = \_\_\_\_\_  
 5. chance = \_\_\_\_\_ 6. make or build = \_\_\_\_\_  
 7. regular or normal = \_\_\_\_\_ 8. have part in = \_\_\_\_\_



## Reading



BIO\_READING1

File

What is the text about?

▶ \_\_\_\_\_

Scroll down to read text

There are so many species of plants and animals in the rainforest that, if you stood in one place and turn a complete circle, you might see hundreds of different species. This incredible number of species of living things is one of the major differences between tropical rainforests and the forests of North America.

A tropical rainforest consists of four layers: the emergent trees, canopy, the understory, and the forest floor. The emergent and canopy layers make up the very top of the rainforest, where a few trees, called emergents, poke out above the green growth to reach

BIO\_READING1

File

the sun. Most of the plant growth is here in the sun, so most rainforest animals, including monkeys, birds and tree frogs, live in the canopy.

Below the canopy are the young trees and shrubs that make up the understory. The plants in this layer rarely grow to large sizes because the canopy blocks most of the sunlight. The forest floor is almost bare because very little light can get through the canopy and understory to the ground. This is where fallen leaves and branches rot quickly to release nutrients for other plants to grow. Large mammals such as

What is the text about?

\_\_\_\_\_

Scroll down to read text

BIO\_READING1

File

up the understory, the plants in this layer rarely grow to large sizes because the canopy blocks most of the sunlight. The forest floor is almost bare because very little light can get through the canopy and understory to the ground. This is where fallen leaves and branches rot quickly to release nutrients for other plants to grow. Large mammals such as South American tapirs and Asian elephants who are too heavy to climb up into the canopy layer live in the dim light of the understory and forest floor.

Extracted from:  
Fact Sheets - Rainforest  
Action Network K1

What is the text about?

\_\_\_\_\_

Scroll down to read text

BIO\_READING1

File

There are so many species of plants and animals in the rainforest that, if you stood in one place and turn a complete circle, you might see hundreds of different species. This incredible number of species of living things is one of the major differences between tropical rainforests and the forests of North America.

A tropical rainforest consists of four layers: the emergent trees, canopy, the understory, and the forest floor. The emergent and canopy layers make up the very top of the rainforest, where a few trees, called emergents, poke out above the green growth to reach

What is the main idea of the text?

BIO\_READING1

File

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A tropical rainforest consists of four layers: the emergent trees, canopy, the understory, and the forest floor. The emergent and canopy layers make up the very top of the rainforest, where a few trees, called emergents, poke out above the green growth to reach

How many layers are there in the tropical rainforest?

\_\_\_\_\_

## BIO\_READING1

File

Continue

There are so many species of plants and animals in the rainforest that, if you stood in one place and turn a complete circle, you might see hundreds of different species. This incredible number of species of living things is one of the major differences between tropical rainforests and the forests of North America.

A tropical rainforest consists of four layers: the emergent trees, canopy, the understory, and the forest floor. The emergent and canopy layers make up the very top of the rainforest, where a few trees, called emergents, poke out above the green growth to reach the sun. Most of the plant growth is here in the

Identify the layers of the rainforest.

EmergentCanopyUnderstoryForest Floor

## BIO\_READING1

File

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According to the text, what animals can we find in the canopy?

\_\_\_\_\_

BIO\_READING1

File

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Why are the trees in the understory layer small?

BIO\_READING1

File

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Why is the forest floor layer important for plants in the rainforest?

BIO\_READING2

- [ ] X

File

## Reading 2

BIO\_READING2

- [ ] X

File

Over the past 10 years, environmental conditions have either failed to improve or appear to be getting worse. For the future, how people protect or abuse the environment could largely determine whether living standards improve or deteriorate.

Despite international concern about the environment since the 1992 Rio de Janeiro "Earth Summit," almost every environmental sector is still cause for concern:

\* Unclean water, along with poor sanitation, kills more than 12 million people a year. Air pollution kills three million more.

\* In 64 of 105 developing countries, population

What is the main idea of this text?

Scroll down to read text

BIO\_READING2

File

pressures, has degraded some two billion hectares of arable land - an area the size of Canada and the United States.

\* By 2025, with world population projected to be at eight billion, 48 countries containing three billion people will face chronic water shortages. In 25 years, humankind could be using more than 90 percent of all available fresh water, leaving just 10 percent for the rest of the world's plants and animals.

\* Half of all coastline ecosystems are now under pressure because of high population densities and development. About half the world's population occupies a coastal strip 200 kilometers wide - just 10 percent of the world's land surface.

What is the main idea of this text?

Scroll down to read text

BIO\_READING2

File

\* Over the past 50 years, almost half of the world's original forest cover has been lost. Current demand for forest products may exceed the limits of sustainable consumption by 25 percent.

\* Since 1950, some 600,000 plant and animal species have disappeared, and now nearly 40,000 more are threatened. This is the fastest rate of extinction since the dinosaurs disappeared.

\* Over the past 40 years ocean surfaces have warmed an average of over half a degree Celsius, largely as a result of carbon emissions from fossil fuel use and from burning of forests. Global warming could raise the sea level by one to three meters as polar ice sheets melt, flooding low

What is the main idea of this text?

Scroll down to read text

## BIO\_READING2



File

percent.

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What is the main idea of this text?

## BIO\_READING2



File

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What is the main reason for better or worse living conditions?



## BIO\_READING2

File

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Which word means 'use wrongly'?

## BIO\_READING2

File

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Which word is the opposite of 'improve'?

## BIO\_READING2



File

percent.

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What is the meeting in Rio de Janeiro called?

## BIO\_READING2



File

percent.

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Which is a more serious problem, water pollution or air pollution?

BIO\_READING2

File

percent.

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'Drinking tap water' is an example of \_\_\_\_\_.

BIO\_READING2

File

percent.

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What is the cause of overcultivation in most developing countries?

BIO\_READING2

File

percent.

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What is the effect of overcultivation?

BIO\_READING2

File

percent.

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Two billion hectares of arable land is equal to

## BIO\_READING2

File

percent.

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When the population in the world hits 8 billion, what will be the biggest problem?

## BIO\_READING2

File

percent.

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In 25 years, what would be the ratio of fresh water used by people to fresh water used by plants and animals?

## BIO\_READING2

File

percent.

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What are the two reasons for the destruction of coastline ecosystems?

## BIO\_READING2

File

percent.

\* Since 1950, some 600,000 plant and animal species have disappeared, and now nearly 40,000 more are threatened. This is the fastest rate of extinction since the dinosaurs disappeared.

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What causes the destruction of the forest?

BIO\_READING2

File

percent

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How many species of plants and animals have already become extinct?

BIO\_READING2

File

percent

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What are the causes of warm ocean surfaces?

BIO\_READING2

File

percent.

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Why is the sea level higher when it is warm?

Because ▶

BIO\_READING2

File

percent.

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What can make many people become homeless?

▶



BIO\_READING2

File

Habitat

percent.

- \* Since 1950, some 600,000 plant and animal species have disappeared, and now nearly 40,000 more are threatened. This is the fastest rate of extinction since the dinosaurs disappeared.
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What is the natural disaster that causes trouble for farmers?

BIO\_READING3

File

Habitat

Methods are the most common. They have been used to study a variety of animals. Methods include all types of habitats of birds, including migratory, coastal, and mountain, forest and coastal. A third of the nation's endangered and threatened species live in these habitats. Some species live in the same place. Methods provide habitat for birds that a mix of all bird species and migratory birds depend upon more than just nesting areas in their migratory habitats.

**Biology: Reading 3**

BIO\_READINGS \_ □ ×

File

<http://library.thinkquest.org/J003192F/habitat.htm>

## Habitat

Wetlands are like rainforests. They have an amazingly wide diversity of wildlife. Wetlands contain all classifications of animals including amphibians, reptiles, birds, mammals, insects and arachnids. A third of our nation's endangered and threatened species live in wetlands their entire lives. Many others live in wetlands at least part of their lives. Some animals can live no where else. Wetlands provide habitat for more than a third of all bird species and migratory birds depend upon these areas for resting areas on their migratory paths.

In what way are wetlands like rainforests?

▶

BIO\_READINGS \_ □ ×

File

<http://library.thinkquest.org/J003192F/habitat.htm>

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Which species of animals are said to exist in wetlands?

▶

BIO\_READINGS

File

<http://library.thinkquest.org/j003192F/habitat.htm>

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What is the proportion of the animals in danger that always live in wetlands?

BIO\_READINGS

File

<http://library.thinkquest.org/j003192F/habitat.htm>

## Habitat

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Why are wetlands important for migratory birds?

Because ▶

## BIO\_READING3

File

## Habitat

<http://library.thinkquest.org/J003192F/habitat.htm>

Wetlands are like rainforests. They have an amazingly wide diversity of wildlife. Wetlands contain all classifications of animals including amphibians, reptiles, birds, mammals, insects and arachnids. A third of our nation's endangered and threatened species live in wetlands their entire lives. Many others live in wetlands at least part of their lives. Some animals can live no where else. Wetlands provide habitat for more than a third of all bird species and migratory birds depend upon these areas for resting areas on their migratory paths.

What is the main idea of this paragraph?

- a. Wetlands and forests are the same     b. Wetlands are habitat for many species of wildlife  
 c. Some birds live in wetlands     d. Many species spend part of their lives in wetlands

## BIO\_READING4

File

## Biology: Reading 4

BIO\_READING4

File

<http://library.thinkquest.org/20248/biointro.html>

### Amazon Life

The Amazon rainforest **merits** respect. In the forest, there are between 5,000,000 and 30,000,000 of different plants. We do not know the exact number, because few of them was studied. But, the ones that have been classified count more than 30,000, and represent ten percent of all plants around the world. The animals have a great deal of species too. Mammalians species counts about 324. Talking about the fresh water

Answer the following questions.

What is the meaning of 'merit' in this text?

1) is good enough for

2) is the same as

3) is different from

4) is far from

Scroll down to read text

BIO\_READING4

File

exact number, because few of them was studied. But the ones that have been classified count more than 30,000, and represent ten percent of all plants around the world. The animals have a great deal of species too. Mammalians species counts about 324. Talking about the fresh water fishes, the Amazon is insuperable. There are between 2,500 and 3,000 different species. Only in Rio Negro, 450 species have been found. In whole Europe, the fresh water species don't overtake 200.

Answer the following questions.

What is the meaning of 'merit' in this text?

1) is good enough for

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BID\_READING4

File

<http://library.thinkquest.org/20248/biointro.html>

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Answer the following questions.

Why can't we be sure about the number of plants in the Amazon?

Because ▶

BID\_READING4

File

exact number, because few of them was studied. But, the ones that have been classified count more than 30,000, and represent ten percent of all plants around the world. The animals have a great deal of species too. Mammalians species counts about 324. Talking about the fresh water fishes, the Amazon is insuperable. There are between 2,500 and 3,000 different species. Only in Rio Negro, 450 species have been found. In whole Europe, the fresh water species don't overtake 200.

Answer the following questions.

What is the percentage of the plants in the world that we can give names to?

- ▶  10%
- 20%
- 30%
- 40%

BIO\_READING4

File

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Answer the following questions.

How many species of mammals have we found so far?

BIO\_READING4

File

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Answer the following questions.

What is the meaning of 'insuperable'?

- 1) too little
- 2) too many to count
- 3) too small to see
- 4) too big to carry

BIO\_READING4

File

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Answer the following questions.

How many fresh water fishes are there in the Amazon?

▶

BIO\_READING4

File

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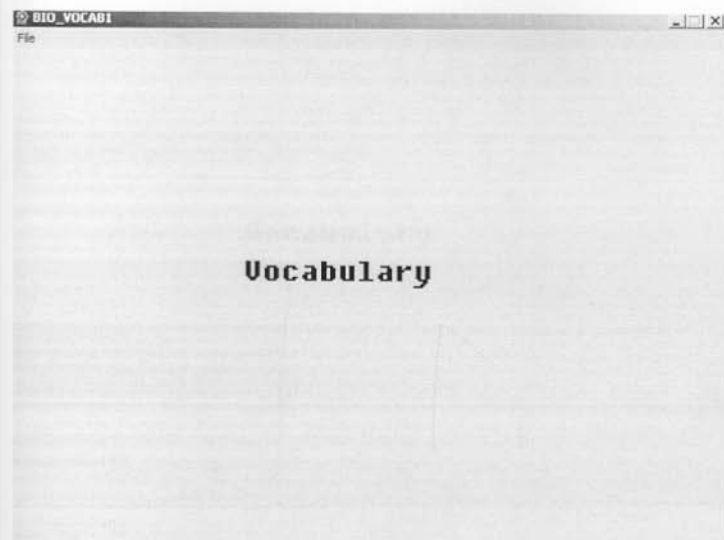
Answer the following questions.

What is the text about?

- 1) plants and animals
- 2) plants and animals in Europe
- 3) diversity of plants and animals in Amazon
- 4) plants in Amazon



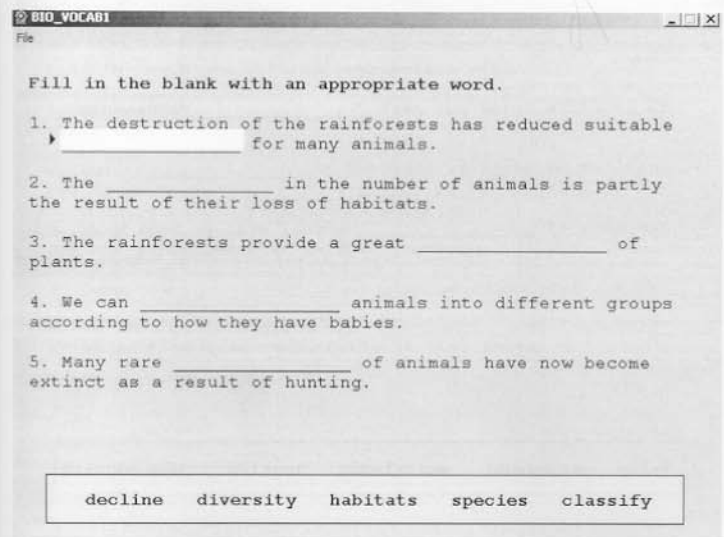
## Vocabulary



BIO\_VOCABI

File

**Vocabulary**



BIO\_VOCABI

File

Fill in the blank with an appropriate word.

1. The destruction of the rainforests has reduced suitable \_\_\_\_\_ for many animals.
2. The \_\_\_\_\_ in the number of animals is partly the result of their loss of habitats.
3. The rainforests provide a great \_\_\_\_\_ of plants.
4. We can \_\_\_\_\_ animals into different groups according to how they have babies.
5. Many rare \_\_\_\_\_ of animals have now become extinct as a result of hunting.

decline    diversity    habitats    species    classify

BIO\_VOCAB1

\_ □ ×

File

## Vocabulary

BIO\_VOCAB2

\_ □ ×

File

Fill in the blank with an appropriate word.

1. Dinosaurs \_\_\_\_\_ from the earth millions of years ago.
2. The \_\_\_\_\_ of Thailand is about 60 million people.
3. Many species have become \_\_\_\_\_ because Man has not protected them carefully enough.
4. Laws now \_\_\_\_\_ to protect endangered species.
5. We need to look after the \_\_\_\_\_ of the world if we want to live comfortably in the future.

disappeared    extinct    population    resource    exist

BIO\_VOCAB1

File

## Vocabulary

BIO\_VOCAB3

File

Fill in the blank with an appropriate word.

1. Large areas of forests have been \_\_\_\_\_ in Indonesia by forest fires.
2. Zoos can help us \_\_\_\_\_ endangered species.
3. The children \_\_\_\_\_ a very large birds' nest when they climbed the tree.
4. It is the strongest and fittest animals that \_\_\_\_\_ in nature.
5. One reason people kill elephant is that their tusks are very \_\_\_\_\_.

survive    discovered    protect    destroyed    valuable

BIO\_VOCAB1

File

## Vocabulary

BIO\_VOCAB4

File

Fill in the blank with an appropriate word.

1. The hunter  the hole in the ground with branches because they wanted the animals to fall down it.
2. The police  the hunters to release all the animals they had caught.
3. Groups of people around the world are fighting to  the Earth's resources.
4. Keeping animals in  often causes them to die.
5. We need to try and  endangered species in zoos so that they do not become extinct.

captive

forced

conserve

covered

breed

BIO\_VOCABS

File

## Vocabulary

BIO\_VOCABS

File

Fill in the blank with an appropriate word.

1. It is difficult to \_\_\_\_\_ laws about cutting down trees in distant places.
2. The World Wildlife Fund has been \_\_\_\_\_ to help protect animals.
3. The fur from animals like the bear is \_\_\_\_\_ a lot of money.
4. It is \_\_\_\_\_ to cut down trees in the forest in Khao Yai.

enforce

worth

established

illegal

BIO\_VOCABS

File

Grammar and Writing

## Vocabulary

Unit 2: Grammar 1

BIO\_VOCAB6

File

Fill in the blank with an appropriate word.

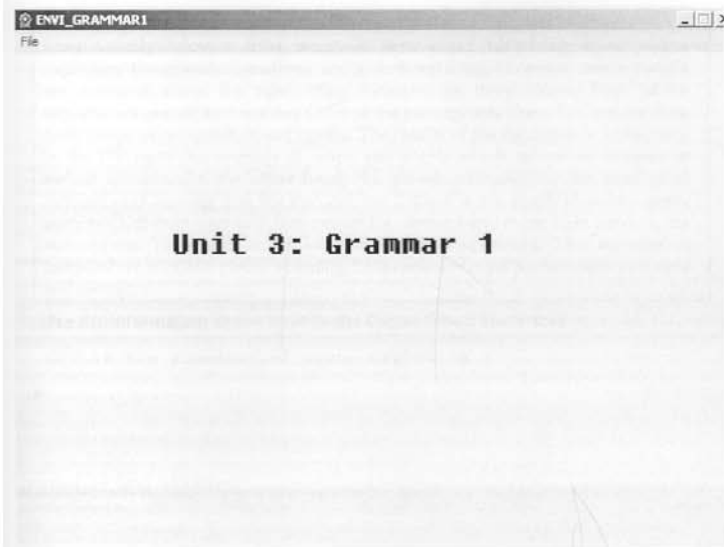
1. More \_\_\_\_\_ must be made to protect endangered species.
2. We must \_\_\_\_\_ those governments that are trying to stop the killing of endangered species.
3. We can prevent the \_\_\_\_\_ of some rare animals by keeping them in zoos.
4. Everybody has a \_\_\_\_\_ to protect the environment for the children of the future.

extinction	responsibility	support	effort
------------	----------------	---------	--------

รายละเอียดของบทเรียน CAI

บทที่ 3 Environment

## Grammar and Writing



 A screenshot of a software window titled "ENVI\_GRAMMAR1". It features a "Continue" button and text explaining cause-effect structures.
 

**The cause-effect structure**  
When you want to talk about the cause of something, use the following structures:

(Cause)	cause(s) result(s) in is/are the cause of	(Effect)
---------	---	----------

When you want to talk about the effect of something, use the following structures:

(Effect)	is/are caused by is/are the result of result(s) from	(Cause)
----------	--	---------

ENVI\_GRAMMAR1

File

## Reading 1

Most people are aware of at least some of the environmental problems today. They usually know a little about or have heard something about ozone depletion, the greenhouse effects and global warming. However, many people are confused about the relationship between the three issues. First, ozone depletion is caused by too many CFCs in the atmosphere. These CFCs come from such things as refrigerators and sprays. The results of the depletion is an increase in the UV light and damage to crops and plants which causes an increase in carbon dioxide. On the other hand, the greenhouse effect is the process of infrared rays coming into the atmosphere. If there is too much of certain gases such as CO<sub>2</sub> from cars and factories in the atmosphere, more light stays in the atmosphere. The result is an increase in the temperature. This increase in temperature is called global warming. This causes many disasters such as floods and droughts.

Use the information above to write the Cause-Effect sentences

CFC in the atmosphere/ ozone depletion

ENVI\_GRAMMAR1

File

## Reading 1

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Use the information above to write the Cause-Effect sentences

Ozone depletion/ damage to certain crops and plants



ENVI\_GRAMMAR1

File

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Use the information above to write the Cause-Effect sentences

Increases in UV radiation/ ozone depletion

ENVI\_GRAMMAR1

File

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Use the information above to write the Cause-Effect sentences

An increase in carbon dioxide/ damage to crops and plants

ENVI\_GRAMMAR1

File

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Use the information above to write the Cause-Effect sentences

CO<sub>2</sub> from cars and factories/ an increase in the temperature

ENVI\_GRAMMAR1

File

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Use the information above to write the Cause-Effect sentences

global warming/ disasters such as floods and droughts

ENVI\_GRAMMAR2

File

## Environment: Grammar 2

ENVI\_GRAMMAR2

File

### Parts of Speech: Noun vs. Adjective, Noun vs. Verb

A) Find the right form of the words below.

Noun-Adjective

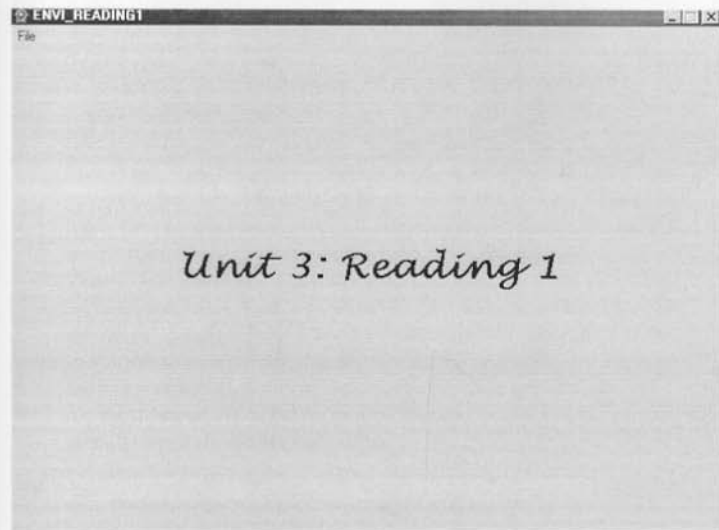
Noun	Adjective
industry	▶ _____
globe	_____
agriculture	_____
_____	harmful
_____	disastrous

Noun	Adjective
environment	_____
nature	_____
_____	dangerous
_____	damaging

B) Fill in the blanks with the words above.

- The \_\_\_\_\_ industry was greatly affected by El Nino.
- Some \_\_\_\_\_ pollutants can be found in rivers and streams in Thailand.
- Even these days, many wild birds can still be found in \_\_\_\_\_.
- Pollution can be \_\_\_\_\_ to people's health.
- Natural \_\_\_\_\_ such as floods can cause a lot of \_\_\_\_\_ to homes and crops.
- \_\_\_\_\_ problems must be solved soon for better living conditions.
- People around the \_\_\_\_\_ are feeling the effects of \_\_\_\_\_ warming.
- One \_\_\_\_\_ of building hydroelectric dams is fish in lakes and rivers could die.
- \_\_\_\_\_ development in Asia is having an effect on the \_\_\_\_\_.

## Reading



ENVI\_READING1

File

**What are the consequences of misusing the environment?**  
adapted from: <http://tqjunior.thinkquest.org/6076/New%20Pages/ECons.html>

**Nuclear waste:** Nuclear waste from power plants lasts the longest. Whether it is stored above ground or below, it could be deadly to live there for thousands of years to come! In some parts of the world, the land is so polluted, farmers can't grow crops at all.

**Overplanting:** Farm land is being destroyed through another misuse of the environment. Planting the same crops for many seasons can use up the nutrients in the soil. Planting too much on the same land means the land gets no rest, and soon it will be useless for farming. Irrigation can also harm the land when too much water floods the soil. This rots the roots of plants and lets top soil get away.

**Destroying forests:** Cutting down forest destroys thousands of acres of

What is the text about?

▶

Scroll down to read text

## ENVI\_READING1

File

**What are the consequences of misusing the environment?**adapted from: <http://tjunior.thinkquest.org/6076/New%20Pages/ECons.html>

land everyday. The soil can easily be blown away and there is less soil. Even if new trees are planted, they cannot bring back the old forest that has gone. This is because the cycle of growth has already finished in which the tall trees were part of a complex ecosystem that cleaned the air, trapped flood waters, and made a home for much wildlife.

**Trash and chemicals:** Most cities develop a lot of trash every day. Although people put trash into a landfill, the bad news is that it may be around for decades. Also, it could release dangerous chemicals into the soil. These poisons can threaten the lives of the people that are living or working nearby. If toxic, or poisonous, chemicals get into the water supply, it is possible to put large populations of people's health at risk, even for people hundreds of miles away.

What is the text about?



## ENVI\_READING1

File

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**Destroying forests:** Cutting down forest destroys thousands of acres of

How many ways can the environment be misused?



## ENVI\_READING1

File

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**Destroying forests:** Cutting down forest destroys thousands of acres of

What are the four effects of the misuse of the environment?



## ENVI\_READING1

File

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**Destroying forests:** Cutting down forest destroys thousands of acres of

Where can nuclear waste be found?



## ENVI\_READING1

File

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**Destroying forests:** Cutting down forest destroys thousands of acres of

When the land is polluted with nuclear waste, how does this affect farmers?



## ENVI\_READING1

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**Destroying forests:** Cutting down forest destroys thousands of acres of

What is overplanting?



## ENVI\_READING1

File

**What are the consequences of misusing the environment?**adapted from: <http://tjjunior.thinkquest.org/6076/New%20Pages/ECCons.html>

**Nuclear waste:** Nuclear waste from power plants lasts the longest. Whether it is stored above ground or below, it could be deadly to live there for thousands of years to come! In some parts of the world, the land is so polluted, farmers can't grow crops at all.

**Overplanting:** Farm land is being destroyed through another misuse of the environment. Planting the same crops for many seasons can use up the nutrients in the soil. Planting too much on the same land means the land gets no rest, and soon it will be useless for farming. Irrigation can also harm the land when too much water floods the soil. This rots the roots of plants and lets top soil get away.

**Destroying forests:** Cutting down forest destroys thousands of acres of

If farmers grow the same plants all years, \_\_\_\_\_ will disappear.

▶ \_\_\_\_\_

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**Destroying forests:** Cutting down forest destroys thousands of acres of

How can bad irrigation damage the land?

▶ \_\_\_\_\_



## ENVI\_READING1

File

**What are the consequences of misusing the environment?**adapted from: <http://tqjunior.thinkquest.org/6076/New%20Pages/ECCons.html>

**Destroying forests:** Cutting down forest destroys thousands of acres of land everyday. The soil can easily be blown away and there is less soil. Even if new trees are planted, they cannot bring back the old forest that has gone. This is because the cycle of growth has already finished in which the tall trees were part of a complex ecosystem that cleaned the air, trapped flood waters, and made a home for much wildlife.

**Trash and chemicals:** Most cities develop a lot of trash every day. Although people put trash into a landfill, the bad news is that it may be around for decades. Also, it could release dangerous chemicals into the soil. These poisons can threaten the lives of the people that are living or working nearby. If toxic, or poisonous, chemicals get into the water

Why is there less soil in the forest?

Because  when many trees are cut down.

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What part did the tall trees play in the ecosystem?

## ENVI\_READING1

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Can the new trees replace the forest that have gone?

▶

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Why were the tall trees in the forest important?

▶

## ENVI\_READING1

File

**What are the consequences of misusing the environment?**

adapted from: <http://tqjunior.thinkquest.org/6076/New%20Pages/ECans.html>

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Where can people dump trash?

▶

## ENVI\_READING1

File

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Why is trash not good for soil?

Because ▶

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How can toxic chemicals be harmful to people who do not live near the landfill?

ENVI\_READING3

File

**Environment: Reading 3**

## ENVI\_READING3

File

Taken from

<http://tjuniior.thinkquest.org/6418/paper.htm>

Today, more paper is being recovered and recycled in America than ever before. That's due to the cooperation of millions of environmentally conscious Americans who begin the recycling process by separating their paper at home and work and to commitment by U.S. papermakers to invest billions of dollars in new recycling capabilities.

The results are impressive. Last year, 45 percent of all the paper Americans used was recovered -45 million tons, an all time record !!!! But while much progress has been made, there is still

According to the text, what makes recycling successful in America?

- 1) more people working at home
- 2) the high cost of paper-making
- 3) lack of resources for making paper
- 4) people's cooperation

Scroll down to read text

## ENVI\_READING3

File

more to be done.

The U.S. paper and paperboard industry is the largest in the world, over 24% of world capacity in 1993. The paper industry is the most capital intensive industry in the U.S., spending approximately \$130,000 per employee in plant and equipment. In addition the industry supplied 523,000 manufacturing jobs in 1994. Paper shipments in 1994 made up over 4% of all manufacturing shipments.

In 1993, the U.S. paper industry set a new goal to recover or reuse 50% of all the paper Americans use in the year 2000. Achieving the 50% goal will

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In 1993, the U.S. paper industry set a new goal to recover or reuse 50% of all the paper Americans use in the year 2000. Achieving the 50% goal will require a partnership involving America's papermakers, the government, businesses, and ordinary people who begin the recycling process by separating paper.

According to the text, what makes recycling successful in America?

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How do people show that they are concerned about the environment?

## ENVI\_READING3

File

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In 1993, the U.S. paper industry set a new goal to recover or reuse 50% of all the paper Americans use in the year

What do papermakers in America do to show that they support the recycling idea?

They ▶

## ENVI\_READING3

File

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What is the highest record of paper recovery in the world?

## ENVI\_READING3

File

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Why is the cooperation from U.S. papermakers significant for the success of recycling?

Because▶

## ENVI\_READING3

File

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In 1993, what was the target set by the U.S. paper industry regarding recovering all the paper used?



ENVI\_READING3

File

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Successful recycling requires

to take part.

ENVI\_READING4

File

**Environment: Reading 4**

## ENVI\_READING4

File

Taken from <http://tqunior.thinkquest.org/6418/aluminum.htm>

### Aluminum

About 65 percent of America's aluminum is being recycled, but more than one million tons of aluminum containers and packaging are thrown away each year.

Although aluminum is less than one percent of the nation's municipal solid waste stream, it still is one of the most valuable recyclable materials.

Used aluminum beverage cans are the most recycled item in the U.S., but other types of aluminum such as siding, gutters, storm window frames, and lawn furniture, can also be recycled.

Aluminum has a high market value and continues to provide an economic incentive to recycle.

Recycled materials, such as aluminum, also provide manufacturers with valuable feedstock. For example, recycled

Scroll down to read text

How is aluminium a threat to the environment? [i.e. Why is it an environmental problem?]

## ENVI\_READING4

File

Aluminum has a high market value and continues to provide an economic incentive to recycle.

Recycled materials, such as aluminum, also provide manufacturers with valuable feedstock. For example, recycled aluminum cans are used to make new cans. In fact nearly 55 percent of new aluminum cans are made from recycled aluminum. The first all-aluminum beverage cans appeared in 1963. The act of recycling used cans began in 1968 in California. One million pounds of aluminum cans were recovered that year, an amount that is melted in about four hours today.

Because aluminum lying in our landfills will still be around in 200 or more years, recycling cans and scrap aluminum makes sense.

Recycling aluminum is so easy, just rinse and store until your next trip by a recycling drop-off area. An aluminum can that is recycled today will be back on the grocery shelf in about 90 days.

How is aluminium a threat to the environment? [i.e. Why is it an environmental problem?]

## ENVI\_READING4

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Which aluminum products do American people recycle most?

## ENVI\_READING4

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Why do people always recycle aluminum?

Because ▶

## ENVI\_READING4

File

Recyclable materials

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When did recycling aluminium cans start?

## ENVI\_READING4

File

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Nowadays, how many aluminium cans go through the recycling process in four hours?

## ENVI\_READING4

File

1) aluminium is hard to find

[request.org/6418/aluminum.htm](http://request.org/6418/aluminum.htm)

2) aluminium doesn't decompose

3) aluminium makes good material for cans

4) aluminium is recycled a lot in the US

...rica's aluminum is being recycled, millions of aluminum containers and each year.

Although aluminum is less than one percent of the nation's municipal solid waste stream, it still is one of the most valuable recyclable materials.

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Aluminum has a high market value and continues to provide an economic incentive to recycle.

Recycled materials, such as aluminum, also provide manufacturers with valuable feedstock. For example, recycled

What makes recycling aluminium cans a good idea?

## ENVI\_READING4

File

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According to the text, how long does it take for the process of recycling aluminium cans to complete?

ENVI\_READINGS

File

Environment: Reading 5

ENVI\_READINGS

File

<http://tqjunior.thinkquest.org/6418/househol.htm>

**Household Toxins**

Things such as poisons, oil, solvents, cleaners, herbicides, automotive fluids, and much more can be called household toxins. Household toxins should not be dumped into the regular trash that is sent to landfills because water that seeps through the landfills, picks up the toxins and eventually ends up untreated in bodies of water like lakes and rivers. Similarly, chemicals must never be dumped into storm drains as they may also end up untreated in large bodies of water. For example, when people dump motor oil into storm drains, **it** flows untreated into bodies of water. This may kill fish and other animals and end up in the air we breathe. The best thing to do is use what you buy and buy only what you need!

According to the text, what kind of toxins are poisons, oil, solvents, herbicides, and automotive fluids?

## ENVI\_READING5

File

<http://tjunior.thinkquest.org/6418/househol.htm>

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Where do people usually move the regular trash?

▶

## ENVI\_READING5

File

<http://tjunior.thinkquest.org/6418/househol.htm>

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Where do toxins from household waste usually end up?

▶

## ENVI\_READINGS

File

<http://tjunior.thinkquest.org/6418/househol.htm>

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Why is the water that picks up the toxins from waste bad for the environment?

Because the water is ▶

## ENVI\_READINGS

File

<http://tjunior.thinkquest.org/6418/househol.htm>

### Household Toxins

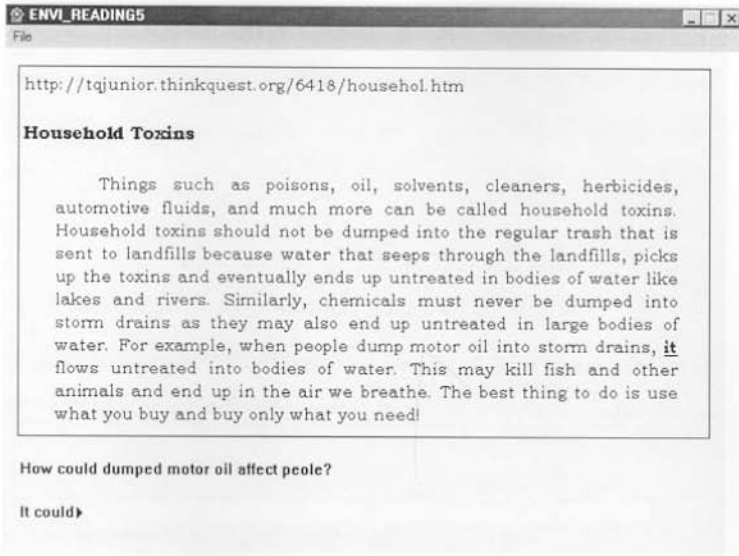
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What does 'it' refer to?

▶



## Vocabulary



ENVI\_READINGS

File

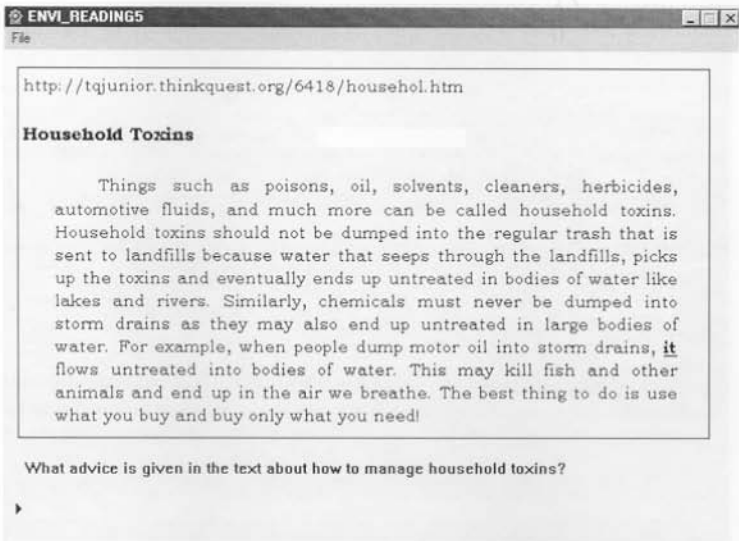
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How could dumped motor oil affect people?

It could▶



ENVI\_READINGS

File

<http://tjunior.thinkquest.org/6418/househol.htm>

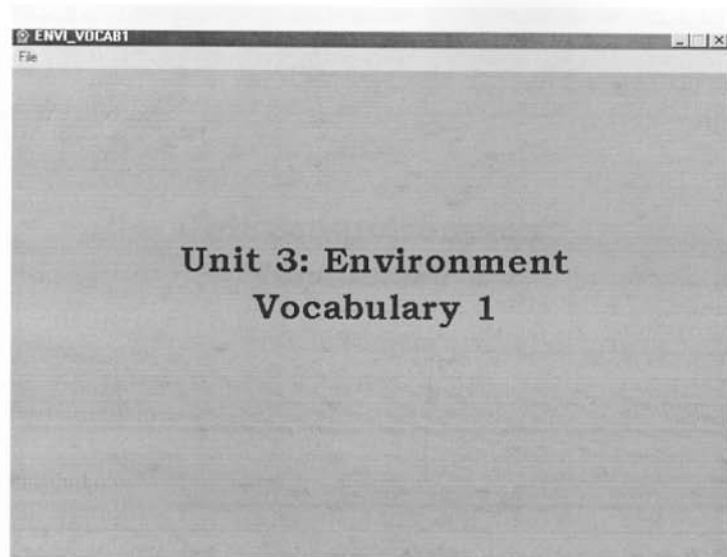
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What advice is given in the text about how to manage household toxins?

▶

## Vocabulary



ENVI\_VOCAB1

File

**Complete each sentence with the word from the list given.**

- Most agricultural chemicals  in water. Therefore, you cannot be always sure if your drinking water contains chemicals such as pesticides or artificial fertilisers or not.
- The governments in some developing countries are now carrying out a campaign to reduce the level of pesticides in drinking water by \_\_\_\_\_ the use of pesticides on farms.
- Many water sources in the world are affected by some of the highest level of pesticide \_\_\_\_\_.
- The use of some chemicals on farmlands has \_\_\_\_\_ a lot of wild animals that live on farms.

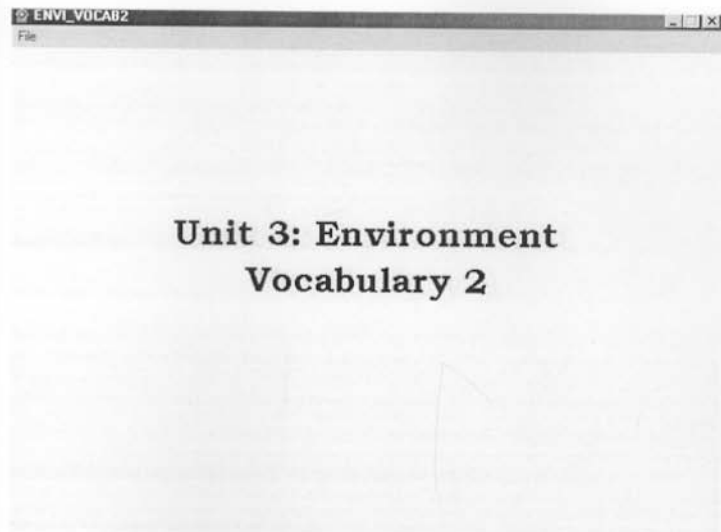
**dissolve**

**hazardous**

**contamination**

**improving**

**threatened**



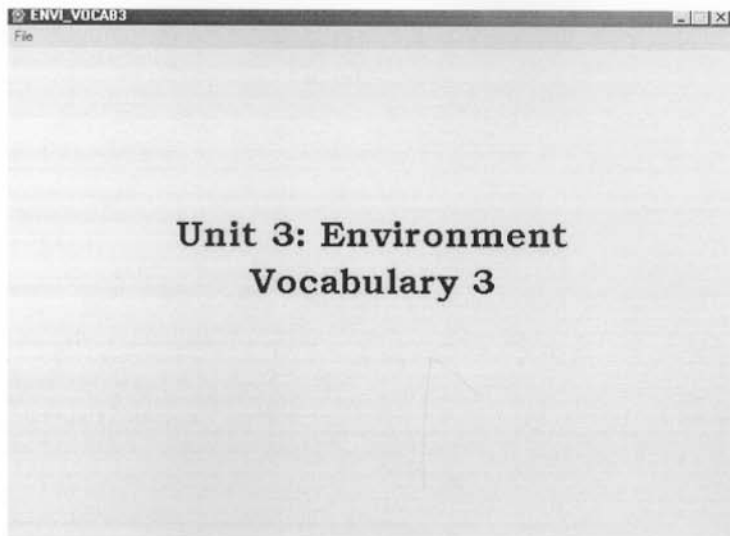
ENVI\_VOCAB2

File

**Complete each blank with a suitable word from the list.**

1. According to a study, just 100 grammes of pesticide can \_\_\_\_\_ up to 1 billion litres of water.
2. For safety purposes, radioactive \_\_\_\_\_ must be treated before being dumped on \_\_\_\_\_.
3. Agriculture contributes many \_\_\_\_\_ to the environment, such as phosphates, herbicides, pesticides, nitrates and bacteria.
4. Nitrates and pesticides are common \_\_\_\_\_ of groundwater derived from agriculture.
5. Chlorine is one chemical substance that is often used to \_\_\_\_\_ water in the treatment process.

disinfect  
generate  
contaminate  
illegal  
waste  
contaminants  
pollutants  
disposal sites  
reduce



ENVI\_VOCAB3

File

**Choose the correct word for each blank.**

1. The Ministry of Agriculture has ▶  a programme which will improve water quality by \_\_\_\_\_ watersheds and reducing polluted \_\_\_\_\_ into lakes and rivers.

2. The use of contaminated surface water in Chile resulted in an \_\_\_\_\_ of cholera in 1991.

3. The combustion of any substance will \_\_\_\_\_ by-product emissions that could be \_\_\_\_\_ to the air.

4. One problem caused by incinerators is that some by-product heavy metals can \_\_\_\_\_ from the ash into the environment.

released  
contributing  
runoff  
migrate  
preserve  
protecting  
contaminated  
established  
outbreak  
generate

## Grammar and Writing

ENVI\_VOCAB4

File

## Unit 3: Environment Vocabulary 4

Comparatives

ENVI\_VOCAB4

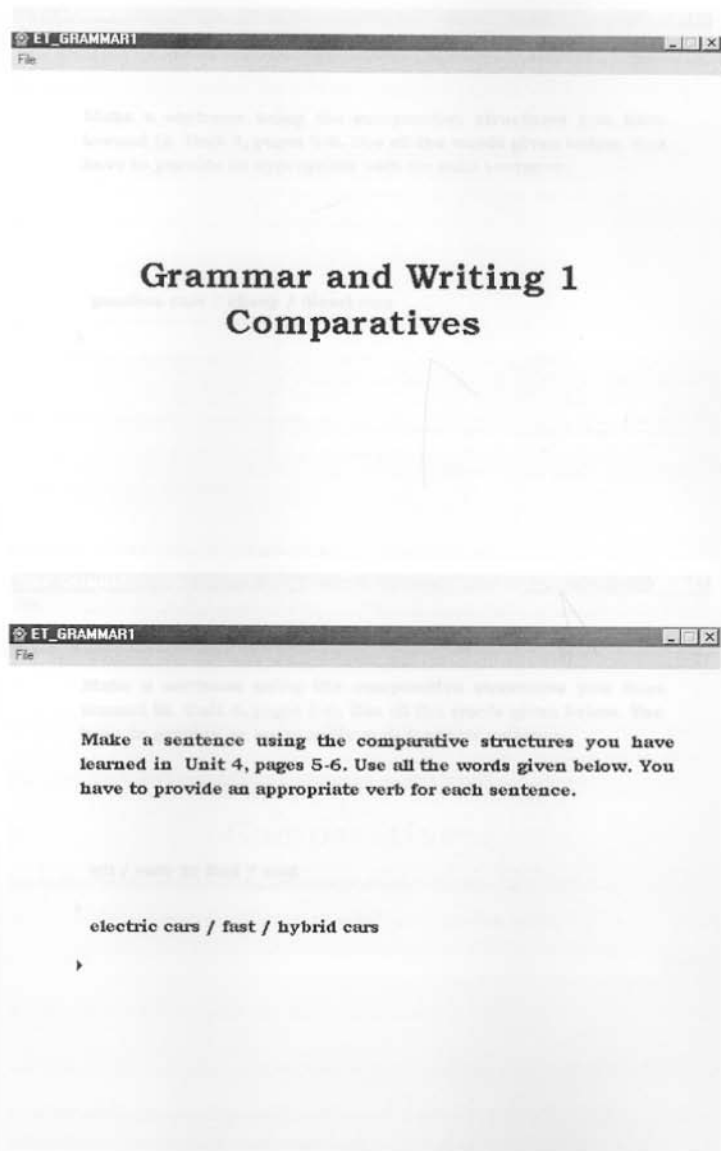
File

**Choose the correct word for each blank.**

1. Metals, especially mercury, lead, and cadmium are some examples of air \_\_\_\_\_ that are usually \_\_\_\_\_ with the process of garbage burning.
2. Bacteria, viruses, chemicals, or other materials can be found in water supplies and can \_\_\_\_\_ illness or even death. These \_\_\_\_\_ must be removed before such water can be used safely for drinking, cooking or washing.
3. Farmers in some parts of China have used water from nearby lakes and \_\_\_\_\_ as the main source for \_\_\_\_\_ systems on farmland. As a result, there has been an increased in the \_\_\_\_\_ for clean water for household \_\_\_\_\_.

- emissions
- result from
- associated
- consumption
- irrigation
- impurities
- reservoirs
- cause
- demand

## Grammar and Writing



ET\_GRAMMAR1

File

Make a sentence using the comparative structures you have learned in Unit 4, pages 5-6. Use all the words given below. You have to provide an appropriate verb for each sentence.

## Grammar and Writing 1

### Comparatives

Make a sentence using the comparative structures you have learned in Unit 4, pages 5-6. Use all the words given below. You have to provide an appropriate verb for each sentence.

electric cars / fast / hybrid cars

ET\_GRAMMAR1

File

Make a sentence using the comparative structures you have learned in Unit 4, pages 5-6. Use all the words given below. You have to provide an appropriate verb for each sentence.

gasoline cars / cheap / diesel cars

ET\_GRAMMAR1

File

Make a sentence using the comparative structures you have learned in Unit 4, pages 5-6. Use all the words given below. You have to provide an appropriate verb for each sentence.

oil / easy to find / coal

ET\_GRAMMAR1

File

Make a sentence using the comparative structures you have learned in Unit 4, pages 5-6. Use all the words given below. You have to provide an appropriate verb for each sentence.

solar energy / safe / natural gas

ET\_GRAMMAR1

File

Make a sentence using the comparative structures you have learned in Unit 4, pages 5-6. Use all the words given below. You have to provide an appropriate verb for each sentence.

hydroelectric power / expensive / wind energy



ET\_GRAMMAR1

File

Make a sentence using the comparative structures you have learned in Unit 4, pages 5-6. Use all the words given below. You have to provide an appropriate verb for each sentence.

## Grammar and Writing 2

### Comparatives

geothermal energy / difficult to find / solar energy



ET\_GRAMMAR1

File

Make a sentence using the comparative structures you have learned in Unit 4, pages 5-6. Use all the words given below. You have to provide an appropriate verb for each sentence.

diesel / widely available / natural gas



ET\_GRAMMAR2

File

Make a sentence using the comparative forms you have learned in the Unit 4, pages 11-12. Use all the words given below to write a sentence. Change the form of the verb to match the subject of the sentence.

## Grammar and Writing 2

### Comparatives

ET\_GRAMMAR2

File

Make a sentence using the comparative forms you have learned in the Unit 4, pages 11-12. Use all the words given below to write a sentence. Change the form of the verb in capital letters to agree with the subject of the sentence.

conventional cars / TRAVEL / a long distance / solar cars

ET\_GRAMMAR2

File

Make a sentence using the comparative forms you have learned in the Unit 4, pages 11-12. Use all the words given below to write a sentence. Change the form of the verb in capital letters to agree with the subject of the sentence.

diesel cars / PRODUCE / emissions / electric cars

▶

ET\_GRAMMAR2

File

Make a sentence using the comparative forms you have learned in the Unit 4, pages 11-12. Use all the words given below to write a sentence. Change the form of the verb in capital letters to agree with the subject of the sentence.

a bus / CARRY / passengers / a taxi

▶

ET\_GRAMMAR2

File

Make a sentence using the comparative forms you have learned in the Unit 4, pages 11-12. Use all the words given below to write a sentence. Change the form of the verb in capital letters to agree with the subject of the sentence.

hydroelectric dams / PRODUCE / electrical power / coal burning

ET\_GRAMMAR2

File

Make a sentence using the comparative forms you have learned in the Unit 4, pages 11-12. Use all the words given below to write a sentence. Change the form of the verb in capital letters to agree with the subject of the sentence.

a Japanese car / HAVE / cheap maintenance costs / a European car

## Reading

ET\_READING1

File

Geothermal energy is one of the world's cleanest ways to produce electricity. With basically no air emissions, geothermal energy can help keep our air clean and our atmosphere clear. Using geothermal power plants to generate electricity produces less air pollution than coal plants. Geothermal energy can help reduce problems associated with global climate change because it produces so little carbon dioxide which is one of the key "greenhouse gases" that cause global warming. Geothermal energy also helps reduce the damage which is caused by acid rain. Acid rain is caused when pollutants such as sulfur dioxide dissolve in water in the atmosphere and return to earth in the form of acidic rain or snow. This rain can have many damaging effects on our environment such as the killing of trees and life in lakes. Geothermal energy produces almost no sulfur dioxide emissions and no nitrogen oxides. This results in no or little acid rain.

What is geothermal energy used for and how does it work?

Geothermal energy

ET\_READING1

File

**Reading Paragraph**

Geothermal energy is one of the world's cleanest ways to produce electricity. With basically no air emissions, geothermal energy can help keep our air clean and our atmosphere clear. Using geothermal power plants to generate electricity produces less air pollution than coal plants. Geothermal energy can help reduce problems associated with global climate change because it produces so little carbon dioxide which is one of the key "greenhouse gases" that cause global warming. Geothermal energy also helps reduce the damage which is caused by acid rain. Acid rain is caused when pollutants such as sulfur dioxide dissolve in water in the atmosphere and return to earth in the form of acidic rain or snow. This rain can have many damaging effects on our environment such as the killing of trees and life in lakes. Geothermal energy produces almost no sulfur dioxide emissions and no nitrogen oxides. This results in no or little acid rain.

What is the use of geothermal energy?  
It is used to ▶

ET\_READING1

- [ ] X

File

**Reading Paragraph**

Geothermal energy is one of the world's cleanest ways to produce electricity. With basically no air emissions, geothermal energy can help keep our air clean and our atmosphere clear. Using geothermal power plants to generate electricity produces less air pollution than coal plants. Geothermal energy can help reduce problems associated with global climate change because it produces so little carbon dioxide which is one of the key "greenhouse gases" that cause global warming. Geothermal energy also helps reduce the damage which is caused by acid rain. Acid rain is caused when pollutants such as sulfur dioxide dissolve in water in the atmosphere and return to earth in the form of acidic rain or snow. This rain can have many damaging effects on our environment such as the killing of trees and life in lakes. Geothermal energy produces almost no sulfur dioxide emissions and no nitrogen oxides. This results in no or little acid rain.

Why is geothermal energy clean to our air and atmosphere?

Because it produces ▶

ET\_READING1

- [ ] X

File

**Reading Paragraph**

Geothermal energy is one of the world's cleanest ways to produce electricity. With basically no air emissions, geothermal energy can help keep our air clean and our atmosphere clear. Using geothermal power plants to generate electricity produces less air pollution than coal plants. Geothermal energy can help reduce problems associated with global climate change because it produces so little carbon dioxide which is one of the key "greenhouse gases" that cause global warming. Geothermal energy also helps reduce the damage which is caused by acid rain. Acid rain is caused when pollutants such as sulfur dioxide dissolve in water in the atmosphere and return to earth in the form of acidic rain or snow. This rain can have many damaging effects on our environment such as the killing of trees and life in lakes. Geothermal energy produces almost no sulfur dioxide emissions and no nitrogen oxides. This results in no or little acid rain.

How does geothermal energy reduce the problem of climate change of the world?

▶

## ET\_READING1

File

## Reading Paragraph

Geothermal energy is one of the world's cleanest ways to produce electricity. With basically no air emissions, geothermal energy can help keep our air clean and our atmosphere clear. Using geothermal power plants to generate electricity produces less air pollution than coal plants. Geothermal energy can help reduce problems associated with global climate change because it produces so little carbon dioxide which is one of the key "greenhouse gases" that cause global warming. Geothermal energy also helps reduce the damage which is caused by acid rain. Acid rain is caused when pollutants such as sulfur dioxide dissolve in water in the atmosphere and return to earth in the form of acidic rain or snow. This rain can have many damaging effects on our environment such as the killing of trees and life in lakes. Geothermal energy produces almost no sulfur dioxide emissions and no nitrogen oxides. This results in no or little acid rain.

What is carbon dioxide?

## ET\_READING1

File

## Reading Paragraph

Geothermal energy is one of the world's cleanest ways to produce electricity. With basically no air emissions, geothermal energy can help keep our air clean and our atmosphere clear. Using geothermal power plants to generate electricity produces less air pollution than coal plants. Geothermal energy can help reduce problems associated with global climate change because it produces so little carbon dioxide which is one of the key "greenhouse gases" that cause global warming. Geothermal energy also helps reduce the damage which is caused by acid rain. Acid rain is caused when pollutants such as sulfur dioxide dissolve in water in the atmosphere and return to earth in the form of acidic rain or snow. This rain can have many damaging effects on our environment such as the killing of trees and life in lakes. Geothermal energy produces almost no sulfur dioxide emissions and no nitrogen oxides. This results in no or little acid rain.

What happens when sulfur dioxide combines with water?

It causes ▶

ET\_READING1

File

**Reading Paragraph**

Geothermal energy is one of the world's cleanest ways to produce electricity. With basically no air emissions, geothermal energy can help keep our air clean and our atmosphere clear. Using geothermal power plants to generate electricity produces less air pollution than coal plants. Geothermal energy can help reduce problems associated with global climate change because it produces so little carbon dioxide which is one of the key "greenhouse gases" that cause global warming. Geothermal energy also helps reduce the damage which is caused by acid rain. Acid rain is caused when pollutants such as sulfur dioxide dissolve in water in the atmosphere and return to earth in the form of acidic rain or snow. This rain can have many damaging effects on our environment such as the killing of trees and life in lakes. Geothermal energy produces almost no sulfur dioxide emissions and no nitrogen oxides. This results in no or little acid rain.

How does geothermal energy help reduce the damage caused by acid rain?

It produces ▶

ET\_READING1

File

**Reading Paragraph**

Geothermal energy is one of the world's cleanest ways to produce electricity. With basically no air emissions, geothermal energy can help keep our air clean and our atmosphere clear. Using geothermal power plants to generate electricity produces less air pollution than coal plants. Geothermal energy can help reduce problems associated with global climate change because it produces so little carbon dioxide which is one of the key "greenhouse gases" that cause global warming. Geothermal energy also helps reduce the damage which is caused by acid rain. Acid rain is caused when pollutants such as sulfur dioxide dissolve in water in the atmosphere and return to earth in the form of acidic rain or snow. This rain can have many damaging effects on our environment such as the killing of trees and life in lakes. Geothermal energy produces almost no sulfur dioxide emissions and no nitrogen oxides. This results in no or little acid rain.

What is the main idea of this paragraph?

▶



ET\_READING2

File

## Reading 2: Energy and Transportation

ET\_READING2

File

### Reading Paragraph

Today, most of the energy we use comes from fossil fuels. Coal, oil, and natural gas are all fossil fuels. Over millions of years, the decay of plants, dinosaurs, and other animals was formed into fossil fuels. These fuels are buried between layers of earth and rock. The only way to get them out is to drill or mine for them. These fuels are now having two serious problems. The first problem is the large amount of pollution, especially air pollution. The major causes of air pollution are cars, trucks that use fossil fuels. The other problem is the eventual drying up of supplies for fossil fuels. While these fuels are still being created today by underground heat and pressure, they are being consumed more rapidly than they are created. For that reason, fossil fuels are *non-renewable*. In other words, they are not replaced as soon as we use them. So, we could run out of them sometime in the future.

What is this text about?

EI\_READING2

File

**Reading Paragraph**

Today, most of the energy we use comes from fossil fuels. Coal, oil, and natural gas are all fossil fuels. Over millions of years, the decay of plants, dinosaurs, and other animals was formed into fossil fuels. These fuels are buried between layers of earth and rock. The only way to get them out is to drill or mine for them. These fuels are now having two serious problems. The first problem is the large amount of pollution, especially air pollution. The major causes of air pollution are cars, trucks that use fossil fuels. The other problem is the eventual drying up of supplies for fossil fuels. While these fuels are still being created today by underground heat and pressure, they are being consumed more rapidly than they are created. For that reason, fossil fuels are *non-renewable*. In other words, they are not replaced as soon as we use them. So, we could run out of them sometime in the future.

How are fossil fuels made?

By▶

EI\_READING2

File

**Reading Paragraph**

Today, most of the energy we use comes from fossil fuels. Coal, oil, and natural gas are all fossil fuels. Over millions of years, the decay of plants, dinosaurs, and other animals was formed into fossil fuels. These fuels are buried between layers of earth and rock. The only way to get them out is to drill or mine for them. These fuels are now having two serious problems. The first problem is the large amount of pollution, especially air pollution. The major causes of air pollution are cars, trucks that use fossil fuels. The other problem is the eventual drying up of supplies for fossil fuels. While these fuels are still being created today by underground heat and pressure, they are being consumed more rapidly than they are created. For that reason, fossil fuels are *non-renewable*. In other words, they are not replaced as soon as we use them. So, we could run out of them sometime in the future.

Why are fossil fuels bad for the environment?

Because they cause▶

ET\_READING2

File

**Reading Paragraph**

Today, most of the energy we use comes from fossil fuels. Coal, oil, and natural gas are all fossil fuels. Over millions of years, the decay of plants, dinosaurs, and other animals was formed into fossil fuels. These fuels are buried between layers of earth and rock. The only way to get them out is to drill or mine for them. These fuels are now having two serious problems. The first problem is the large amount of pollution, especially air pollution. The major causes of air pollution are cars, trucks that use fossil fuels. The other problem is the eventual drying up of supplies for fossil fuels. While these fuels are still being created today by underground heat and pressure, they are being consumed more rapidly than they are created. For that reason, fossil fuels are *non-renewable*. In other words, they are not replaced as soon as we use them. So, we could run out of them sometime in the future.

Why are fossil fuels non-renewable?

Because ▶

ET\_READING2

File

**Reading Paragraph**

Today, most of the energy we use comes from fossil fuels. Coal, oil, and natural gas are all fossil fuels. Over millions of years, the decay of plants, dinosaurs, and other animals was formed into fossil fuels. These fuels are buried between layers of earth and rock. The only way to get them out is to drill or mine for them. These fuels are now having two serious problems. The first problem is the large amount of pollution, especially air pollution. The major causes of air pollution are cars, trucks that use fossil fuels. The other problem is the eventual drying up of supplies for fossil fuels. While these fuels are still being created today by underground heat and pressure, they are being consumed more rapidly than they are created. For that reason, fossil fuels are *non-renewable*. In other words, they are not replaced as soon as we use them. So, we could run out of them sometime in the future.

What will happen when we cannot replace fossil fuels?

ET\_READING3

File

### Reading 3:

## Energy and Transportation

### Reading Paragraph

Although renewable energy sources have huge potential for replace non-renewable energy, the greatest problem with most renewables is that they are not reliable. Wind, waves, sunshine, and tides are all variable and hours or days may pass when no power can be generated. Hydroelectric power is more reliable, but dams tend to silt up or block up. This reduces the capacity of dams to generate the power. Droughts can cause a similar problem to dams. This is because when there is no or very little rain, dams do not store enough water to generate electricity. As for wood, although it is renewable, it can cause serious pollution problems like coal if it is used widely. For the last example, peat is only marginally renewable because it takes thousands of years to form. Extracting it can destroy the plant community which produces it. This in turn prevents peat from continuing to build up.

What is one major disadvantage of renewable energy sources?

ET\_READINGS

File

## Reading Paragraph

Although renewable energy sources have huge potential for replace non-renewable energy, the greatest problem with most renewables is that they are not reliable. Wind, waves, sunshine, and tides are all variable and hours or days may pass when no power can be generated. Hydroelectric power is more reliable, but dams tend to silt up or block up. This reduces the capacity of dams to generate the power. Droughts can cause a similar problem to dams. This is because when there is no or very little rain, dams do not store enough water to generate electricity. As for wood, although it is renewable, it can cause serious pollution problems like coal if it is used widely. For the last example, peat is only marginally renewable because it takes thousands of years to form. Extracting it can destroy the plant community which produces it. This in turn prevents peat from continuing to build up.

How many renewable energy sources are used for giving examples?

ET\_READINGS

File

## Reading Paragraph

Although renewable energy sources have huge potential for replace non-renewable energy, the greatest problem with most renewables is that they are not reliable. Wind, waves, sunshine, and tides are all variable and hours or days may pass when no power can be generated. Hydroelectric power is more reliable, but dams tend to silt up or block up. This reduces the capacity of dams to generate the power. Droughts can cause a similar problem to dams. This is because when there is no or very little rain, dams do not store enough water to generate electricity. As for wood, although it is renewable, it can cause serious pollution problems like coal if it is used widely. For the last example, peat is only marginally renewable because it takes thousands of years to form. Extracting it can destroy the plant community which produces it. This in turn prevents peat from continuing to build up.

What natural disaster causes the dam to stop producing electricity?

## ET\_READING3

File

## Reading Paragraph

Although renewable energy sources have huge potential for replace non-renewable energy, the greatest problem with most renewables is that they are not reliable. Wind, waves, sunshine, and tides are all variable and hours or days may pass when no power can be generated. Hydroelectric power is more reliable, but dams tend to silt up or block up. This reduces the capacity of dams to generate the power. Droughts can cause a similar problem to dams. This is because when there is no or very little rain, dams do not store enough water to generate electricity. As for wood, although it is renewable, it can cause serious pollution problems like coal if it is used widely. For the last example, peat is only marginally renewable because it takes thousands of years to form. Extracting it can destroy the plant community which produces it. This in turn prevents peat from continuing to build up.

What can happen if people continue to use peat to produce energy?

They can ▶

## ET\_READING3

File

## Reading Paragraph

Although renewable energy sources have huge potential for replace non-renewable energy, the greatest problem with most renewables is that they are not reliable. Wind, waves, sunshine, and tides are all variable and hours or days may pass when no power can be generated. Hydroelectric power is more reliable, but dams tend to silt up or block up. This reduces the capacity of dams to generate the power. Droughts can cause a similar problem to dams. This is because when there is no or very little rain, dams do not store enough water to generate electricity. As for wood, although it is renewable, it can cause serious pollution problems like coal if it is used widely. For the last example, peat is only marginally renewable because it takes thousands of years to form. Extracting it can destroy the plant community which produces it. This in turn prevents peat from continuing to build up.

What does 'they' in line 3 refer to?

▶

## Listening and Writing

ET\_READING3

File

## Reading Paragraph

Although renewable energy sources have huge potential for replace non-renewable energy, the greatest problem with most renewables is that they are not reliable. Wind, waves, sunshine, and tides are all variable and hours or days may pass when no power can be generated. Hydroelectric power is more reliable, but dams tend to silt up or block up. This reduces the capacity of dams to generate the power. Droughts can cause a similar problem to dams. This is because when there is no or very little rain, dams do not store enough water to generate electricity. As for wood, although it is renewable, it can cause serious pollution problems like coal if it is used widely. For the last example, peat is only marginally renewable because it takes thousands of years to form. Extracting it can destroy the plant community which produces it. This in turn prevents peat from continuing to build up.

What does 'it' in line 11 refer to?

ET\_READING3

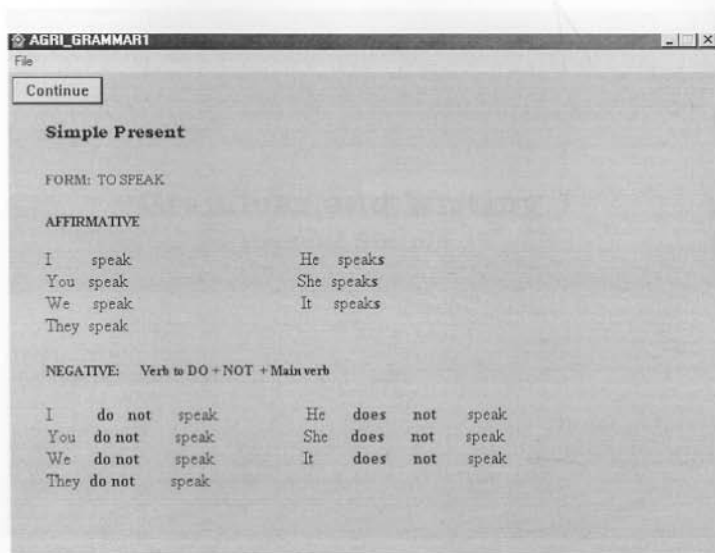
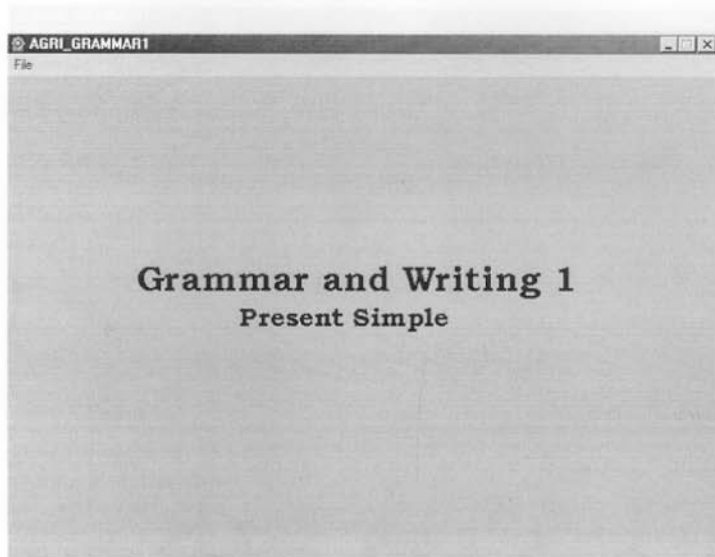
File

## Reading Paragraph

Although renewable energy sources have huge potential for replce non-renewable energy, the greatest problem with most renewables is that they are not reliable. Wind, waves, sunshine, and tides are all variable and hours or days may pass when no power can be generated. Hydroelectric power is more reliable, but dams tend to silt up or block up. This reduces the capacity of dams to generate the power. Droughts can cause a similar problem to dams. This is because when there is no or very little rain, dams do not store enough water to generate electricity. As for wood, although it is renewable, it can cause serious pollution problems like coal if it is used widely. For the last example, peat is only marginally renewable because it takes thousands of years to form. Extracting it can destroy the plant community which produces it. This in turn prevents peat from continuing to build up.

What is the main idea of this paragraph?

## Grammar and Writing





AGRI\_GRAMMAR1

File

Continue

**Use: Present simple tense is used to show**

**1. habits, sometimes used with adverbs of frequency such as 'always, usually, often, sometimes, hardly, never'**

e.g. I always **get up** early.  
John never **gets up** early.

**2. facts about something**

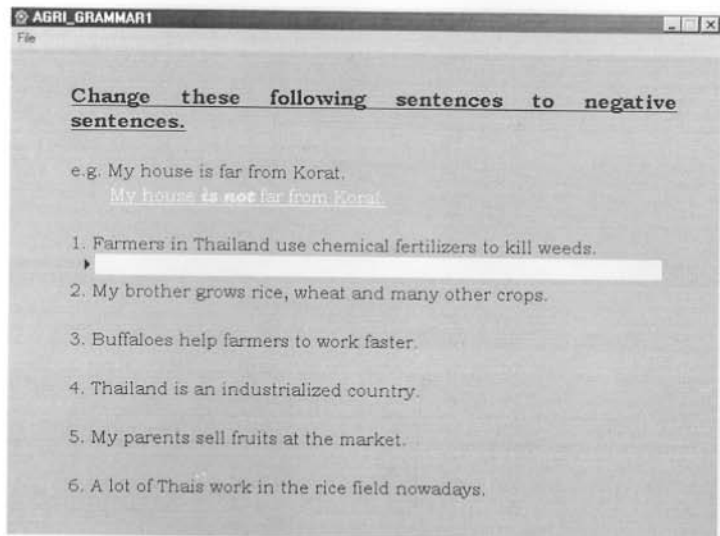
e.g. The sun **rises** in the east and **sets** in the west.  
Bangkok **is** the capital city of Thailand.

AGRI\_GRAMMAR1

File

**Exercise: Change the verbs in brackets to the appropriate form of present simple**

- Noriko is from Japan. She (speak) \_\_\_\_\_ Japanese.
- Dr. Puangpen (teach) \_\_\_\_\_ English at SUT.
- We (use) \_\_\_\_\_ a computer to type our reports.
- Jamie (like) \_\_\_\_\_ to read cartoon books very much.
- My sister always (leave) \_\_\_\_\_ the lights in her bedroom on at night because she is afraid of ghosts.
- His job is very interesting because he (meet) \_\_\_\_\_ interesting people every day.
- They usually (take) \_\_\_\_\_ a bus to work.
- Mary and Vincent never (have) \_\_\_\_\_ coffee in the morning.
- Our dog (hate) \_\_\_\_\_ to sleep in a small room.
- The bank on SUT campus (open) \_\_\_\_\_ at 8.30 a.m.



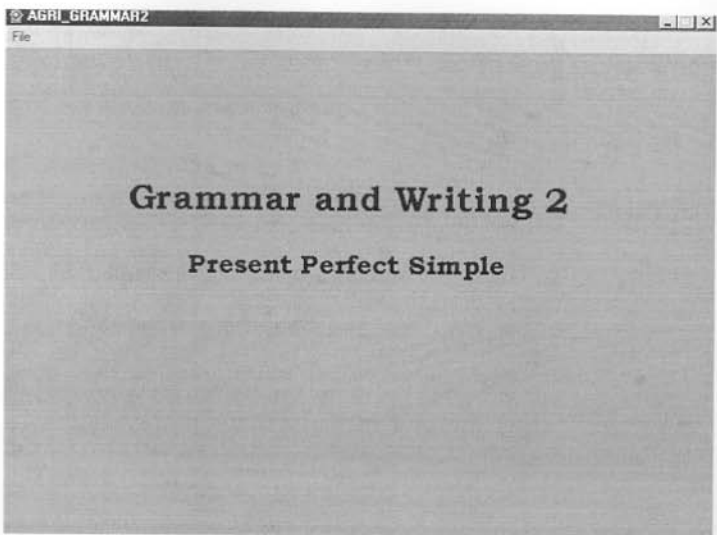
**AGRI\_GRAMMAR1**

File

**Change these following sentences to negative sentences.**

e.g. My house is far from Korat.  
My house ~~is~~ not far from Korat.

1. Farmers in Thailand use chemical fertilizers to kill weeds.  
▶
2. My brother grows rice, wheat and many other crops.
3. Buffaloes help farmers to work faster.
4. Thailand is an industrialized country.
5. My parents sell fruits at the market.
6. A lot of Thais work in the rice field nowadays.



**AGRI\_GRAMMAR2**

File

**Grammar and Writing 2**

**Present Perfect Simple**

AGRI\_GRAMMAR2

File

Continue

Present Perfect

FORM: [HAS / HAVE] + [past participle]

To EAT

AFFIRMATIVE

I	have eaten	He	has eaten
You	have eaten	She	has eaten
We	have eaten	It	has eaten
They	have eaten		

NEGATIVE: [HAS / HAVE] + NOT + [past participle]

I	have not eaten	He	has not eaten
You	have not eaten	She	has not eaten
We	have not eaten	It	has not eaten
They	have not eaten		

AGRI\_GRAMMAR2

File

Continue

Present perfect simple tense is used to show

- an action, an experience that happened before now. The exact time is not important.  
**Time expressions:** "ever," "never," "once," "many times," "several times," "before," "so far," "already" and "yet."  
**EXAMPLES:** I have met the Prime Minister once before.  
 We have heard that name many times.
- something started in the past and has continued up until now.  
**Time expressions:** 'for' + time OR 'since' + time  
 e.g. "For five minutes," "for two weeks" and "since Tuesday"  
**EXAMPLES:**  
 I have had a cold for two weeks.  
 She has been in England for six years.

AGRI\_GRAMMAR2

File

Exercise: Fill in the blanks with an appropriate form of present perfect

INFINITIVES	SUBJECT	HAVE	V3
RUN	They	have	run
TALK	My mother	▶	talked
LAUGH	All students	have	
STOP	The bus		stopped
SHOW	We	have	
BUY	Some people	have	
GO	The king		gone
BE	Thailand		been
HAVE	Many animals	have	

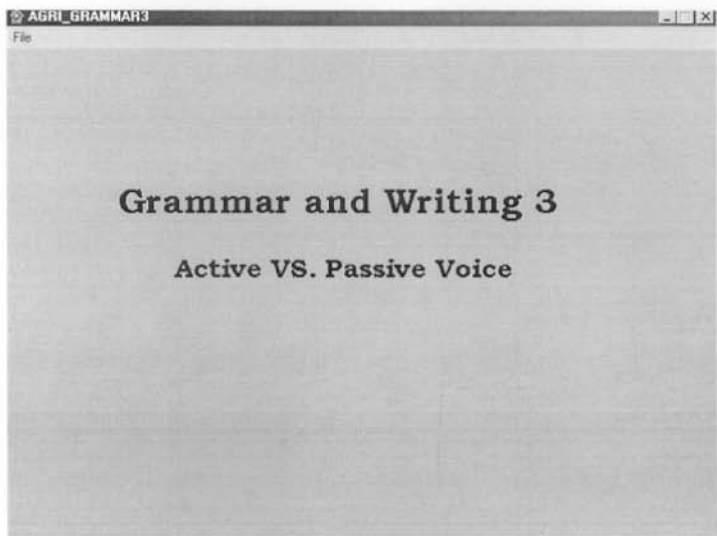
AGRI\_GRAMMAR2

File

**Change the following sentences to present perfect, using the time expressions given in the brackets.**

e.g. She teaches at this school. (for 2 years)  
*She has taught at this school for 2 years.*

- My mother goes to the market. (since 8 a.m.)  
 ▶
- They go to England. (already)
- Helen is in Thailand. (for more than 10 years)
- I talk to this man. (before)
- My best friend works at this company. (since 1999)
- Her dad takes us to Huahin. (once)



AGRI\_GRAMMAR3

File

Continue

### Active / Passive Verb Forms

ACTIVE FORM: In active sentences, the thing doing the action is the **subject** of the sentence and the thing receiving the action is the **object**.

[Thing doing action] + [VERB] + [thing receiving action]

**EXAMPLES:**

The professor	teaches	the students.
{subject}	{active verb}	{object}
{doing action}		{receiving action}

John	washes	the dishes
{subject}	{active verb}	{object}
{doing action}		{receiving action}

AGRI\_GRAMMAR3

File

Continue

**PASSIVE FORM:** In some sentences, speakers use the passive form. In the passive form, the thing receiving the action is the **subject** and the thing doing the action is the **object**. You can use the passive form if you think the thing receiving the action is more important.

**[Thing receiving action] + [BE] + [V3] + [by] + [thing doing action]**

**EXAMPLES:**

The students are taught by the professor.  
 (subject) (passive verb) (doing action)

The dishes are washed by John.  
 (subject) (passive verb) (doing action)

AGRI\_GRAMMAR3

File

**Label each example sentence below either Active or Passive.**

**EXAMPLES:**

a) She writes the travel books. active

b) The travel books are written by her. passive

1. He eats steak everyday. ▶
2. She is picked up after school.
3. The book is often read by students.
4. I read the newspaper before work.
5. Sally studies French.
6. French is studied by many foreigners.
7. Debbie cleans the kitchen once a week.
8. The kitchen is cleaned once a week.

## Reading

AGRI\_GRAMMAR3

File

Read the following sentences carefully and decide if you need passive or active. Fill in the blanks with the appropriate form.

**EXAMPLES:**

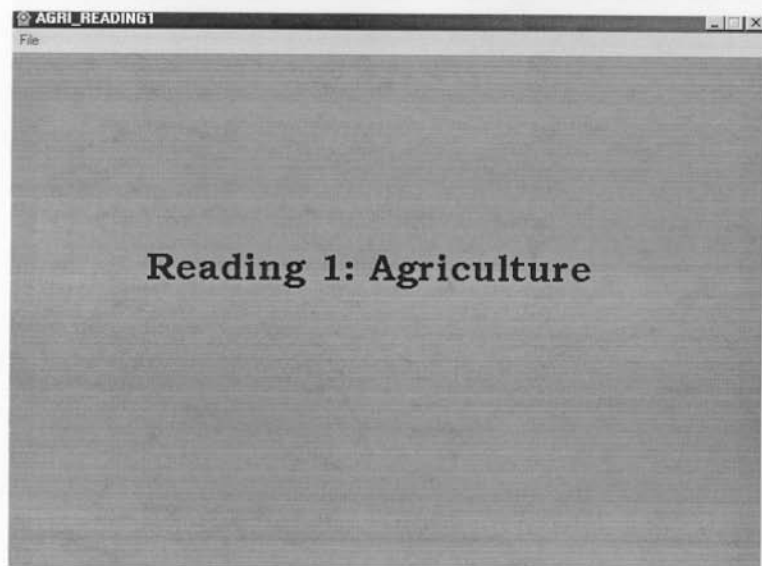
a) The train (leave) leaves the station at 5.30 a.m. everyday.

b) My car (clean) is cleaned everyday by my gardener.

**EXERCISE**

- Farmers (use) use a lot pesticides to kill insects.
- Thailand (export) exports rice to many countries in the world.
- Strawberries (grow) are grown only in the northern part of Thailand.
- Many trees (cut) are cut down to make land for farming.
- Tractors (use) are used to help farmers in the field.
- Buffaloes (replace) are replaced by tractors to help farmers work faster.
- Many farmers (install) are installing a good irrigation system to water their crops on the field.

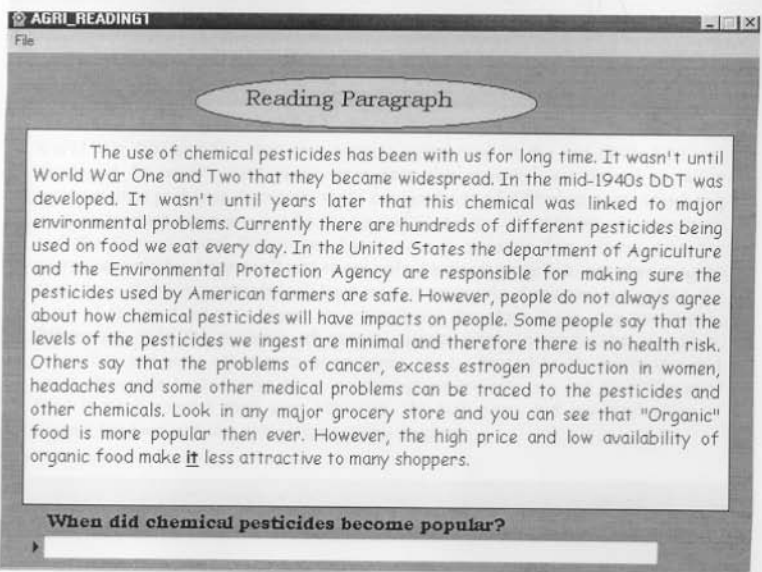
## Reading



AGRI\_READING1

File

## Reading 1: Agriculture



AGRI\_READING1

File

Reading Paragraph

The use of chemical pesticides has been with us for long time. It wasn't until World War One and Two that they became widespread. In the mid-1940s DDT was developed. It wasn't until years later that this chemical was linked to major environmental problems. Currently there are hundreds of different pesticides being used on food we eat every day. In the United States the department of Agriculture and the Environmental Protection Agency are responsible for making sure the pesticides used by American farmers are safe. However, people do not always agree about how chemical pesticides will have impacts on people. Some people say that the levels of the pesticides we ingest are minimal and therefore there is no health risk. Others say that the problems of cancer, excess estrogen production in women, headaches and some other medical problems can be traced to the pesticides and other chemicals. Look in any major grocery store and you can see that "Organic" food is more popular than ever. However, the high price and low availability of organic food make it less attractive to many shoppers.

**When did chemical pesticides become popular?**

▶



## AGRI\_READING1

File

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**Name one example of chemical pesticides mentioned in the paragraph.**

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File

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**In the US, which organisation controls the use of chemical pesticides?**

AGRI\_READING1

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**Why do some people think that chemical pesticides are quite safe?  
Because**

AGRI\_READING1

File

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**Name three health problems caused by pesticides.**

## AGRI\_READING1

File

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What are the two reasons why some people do not buy organic food?

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File

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What does 'it' in line 14 refer to?

## AGRI\_READING1

File

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What is this paragraph about?

## AGRI\_READING2

File

## Reading 2: Agriculture

## AGRI\_READING2

File

## Reading Paragraph

These days, people are becoming more interested in eating healthy, natural and nutritious food. Organic foods are good for people who want to improve their health. Organic foods do not contain any harmful contaminants and are grown without artificial fertilizers and chemical pesticides. Organic farming focuses on helping the soil to have a good balance of harmful and beneficial organisms. If the soil is healthy and has a good balance of these organisms, the crops will be strong and nutritious. In addition to balancing the organisms in the soil, organic farming helps to reduce the effect of overuse of farmland.

The main points of organic farming are:

1. No artificial fertilizers are used.
2. No synthetic sprays are used.
3. Livestock is kept in as natural conditions as possible with no additives such as growth hormones in feed.
4. Treatment of crops is by natural means - compost, animal manure are used.
5. Crop rotation is used in order to decrease the amount of disease and to prevent a decrease in soil quality which occurs when the same crop is grown every year.

**What is organic food?**

It is ▶

## AGRI\_READING2

File

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**Why are organic foods healthy for people?**

Because they ▶

## AGRI\_READING2

File

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**How is organic farming good for the soil?**

It ▶

## AGRI\_READING2

File

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**Name a problem about farming caused by the use of chemical pesticides or artificial fertilizers.**

▶

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File

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Which word in the paragraph refers to 'animals raised on the farm'?

## AGRI\_READING2

File

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What do farmers put in food to help their animals grow faster?

## AGRI\_READING2

File

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**What will happen if farmers only grow corn in their field every year?**

There is,

## AGRI\_READING2

File

## Reading Paragraph

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**Which organic matters do farmers use to help plants grow?**



AGRI\_READING2

File

## Reading Paragraph

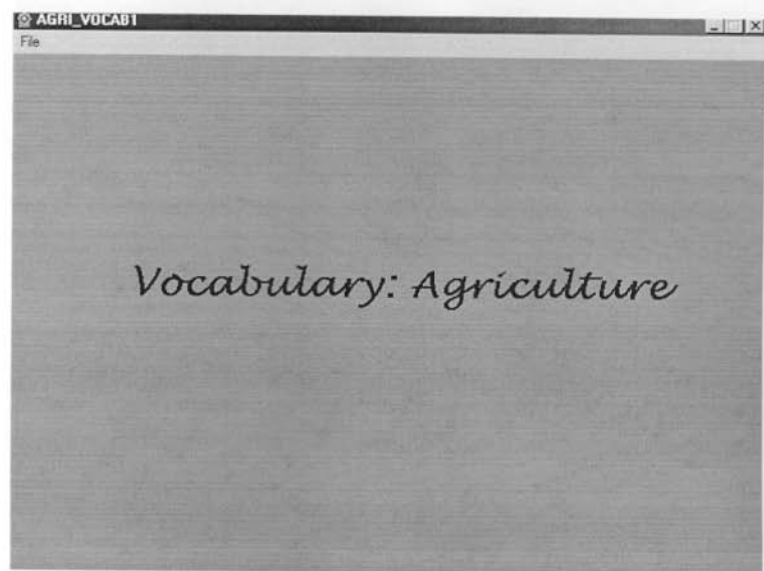
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**Which farming method is used to help reduce the problem of plant diseases?**

## Vocabulary



AGRI\_VOCAB1

File

*Vocabulary Build-up*

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**Find the words in the text that match the meanings given.**

- a. happening in many places
- b. was the cause of
- c. very important
- d. now, at present
- e. having control or power
- f. take in (food)
- g. very little
- h. danger
- i. too much of something
- j. about medicine or health
- k. found out how it started
- l. a shop that sells vegetables
- m. finding something easily
- n. looking good and interesting

roll down to see text

AGRI\_VOCAB1

File

*Vocabulary Build-up*

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AGRI\_VOCAB2

File

*Vocabulary: Agriculture*

## AGRI\_VOCAB2

File

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Find the words in the text that match with the meanings given below.

- valuable to the body as food
- make something better
- have or include
- poisonous matters
- not natural
- good or useful
- living things
- plants that farmers grow
- become less in amount
- using too much
- not naturally produced
- chemical substances added to something else
- care
- stop from happening

Scroll down to see text

## AGRI\_VOCAB2

File

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AGRI\_VOCAB2

File

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14. stop from happening



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มหาวิทยาลัยเทคโนโลยีสุรนารี