



## What Is This Module About?

We live in the age of technology. Technology has opened many roads for us to have a better way of life. Most of our appliances and equipment now are so advanced that we are simply amazed at the ingenuity and resourcefulness of the people behind this technological revolution.

This module is about the use of modern appliances and communication technology. You will know and understand how these technological advances can help you in your everyday life. You will learn how to use these gadgets and apply their uses in your life.

This module is divided into three lessons. These are:

Lesson 1 – *Understanding and Using Technology*

Lesson 2 – *Technology: Man's Best Friend*

Lesson 3 – *Communication Technology: Your Link to the World*



## What Will You Learn From This Module?

After studying this module, you should be able to:

- ◆ identify the different kinds of modern appliances being used in homes;
- ◆ demonstrate the proper use of these technological advances;
- ◆ describe the latest in entertainment technology;
- ◆ demonstrate the proper way of taking care of the appliances and equipment described;
- ◆ cite the advantages of using these technological advances;
- ◆ identify the different means of communication;
- ◆ explain how technology can help us communicate with others;
- ◆ demonstrate the proper use of new communication technology; and
- ◆ cite the advantages of using computers and other smart machines.



## Let's See What You Already Know

Before you start studying this module, take the following test first to find out how much you already know about the topics to be discussed.

A. Examine the list below. Put a check (✓) before the item in the list which you think is a product of modern technology.

- |                        |                    |
|------------------------|--------------------|
| ___ 1. hammer          | ___ 6. videophone  |
| ___ 2. microwave oven  | ___ 7. computer    |
| ___ 3. air conditioner | ___ 8. bicycle     |
| ___ 4. jeepney         | ___ 9. wheelbarrow |
| ___ 5. saw             | ___ 10. cellphone  |

B. Answer the following questions by writing the appropriate product of modern technology on the line that follow each question.

1. You have a basketful of seafood but you cannot cook all of it at once. What do you use to preserve it? \_\_\_\_\_
2. You are stuck in traffic and you are already late for your date with a friend. What can you use to inform your friend that you will be late?  
\_\_\_\_\_
3. You want to watch foreign news, what will you use? \_\_\_\_\_
4. You want to chat with your cousin in the U.S. but calling him/her on the phone would be expensive. How would you be able to get in touch with him/her? \_\_\_\_\_
5. You are hungry and the only food available is frozen. What will you use to be able to eat the food? \_\_\_\_\_

C. Below is a list of products of modern technology. On the lines provided, write a sentence or phrase telling the importance of each product. Follow the example below.

- |               |                                        |
|---------------|----------------------------------------|
| VCD           | It enables us to watch clearer movies. |
| 1. telephone  | _____                                  |
|               | _____                                  |
| 2. television | _____                                  |
|               | _____                                  |
| 3. computer   | _____                                  |
|               | _____                                  |

4. cellphone \_\_\_\_\_  
\_\_\_\_\_
5. gas stove \_\_\_\_\_  
\_\_\_\_\_

Well, how was it? Do you think you fared well? Compare your answers with those in the *Answer Key* on page 52.

If all your answers are correct, very good! This shows that you already know much about the topics in this module. You may still study the module to review what you already know. Who knows, you might learn a few more new things as well.

If you got a low score, don't feel bad. This means that this module is for you. It will help you understand some important concepts that you can apply in your daily life. If you study this module carefully, you will learn the answers to all the items in the test and a lot more! Are you ready?

You may go now to the next page to begin Lesson 1.

# Understanding and Using Technology

What is technology? Do you have any idea what technology is? What is the difference between the tools we have now and those our elders used before?

In this lesson, you will learn about the different electronic devices that help make our work easier and faster at home.



## Let's Try This

Before we proceed with this lesson, form your own views on what technology is, what is your understanding of technology in general? How does it fit in your life? Can you name some things you use that are products of technology?

Fill in the blanks.

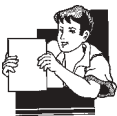
The products of technology in my home are \_\_\_\_\_

\_\_\_\_\_

I believe that technology \_\_\_\_\_

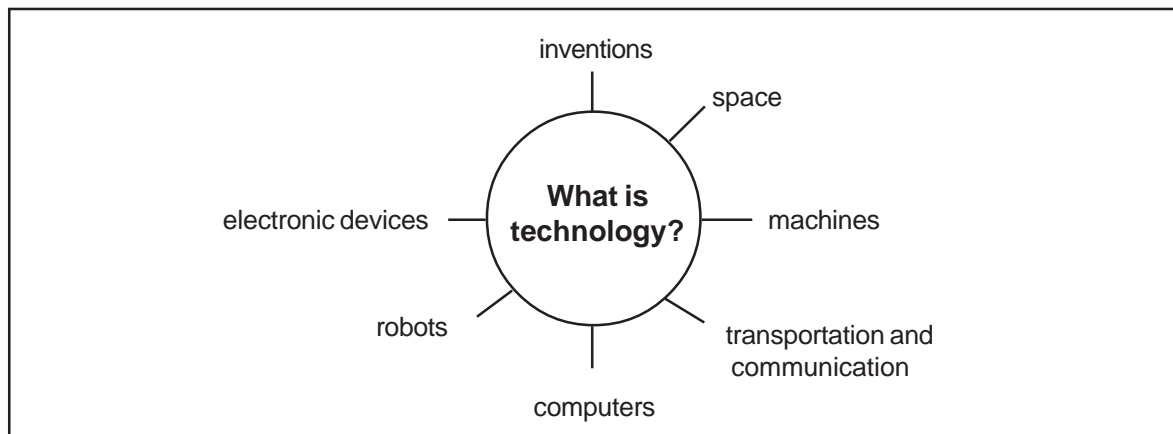
\_\_\_\_\_

Compare your answer with the sample answer in the *Answer Key* on page 52.



## Let's Learn

It is likely that your views about technology can be summarized according to the diagram below. Study it.





## Let's Think About This

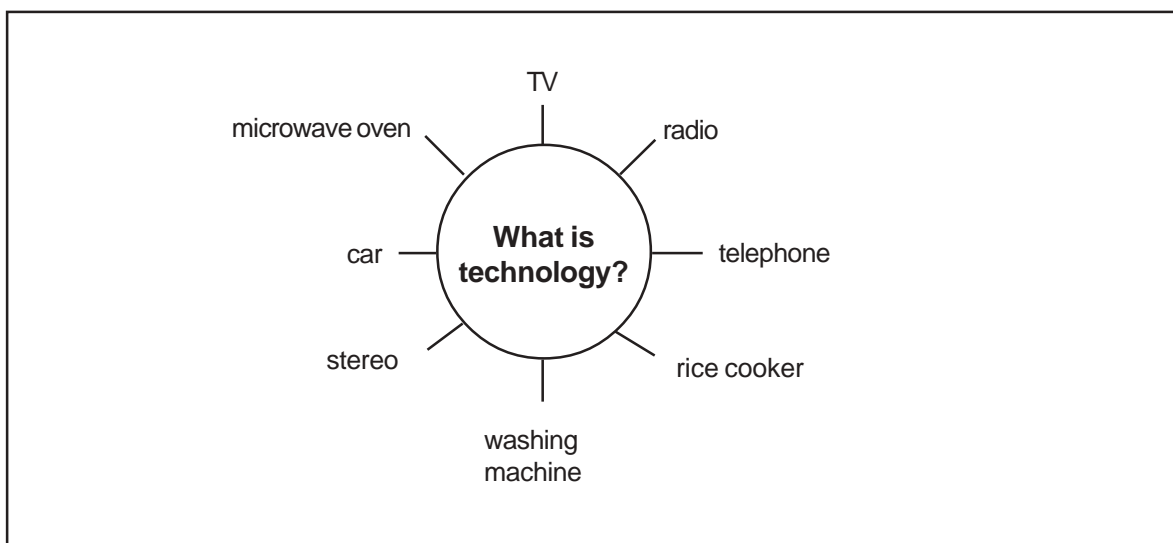
Based on the diagram, what can you say about technology?

Technology is \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

You probably wrote that technology is about inventions, space, machines, transportation and communication, computers, robots and electronic devices. You are right! These are all products of technology in general. But how can you apply these technologies in your everyday life? Look at your surroundings, what kind of technology can help you? Below are some words that can help define technology. List an example of each.

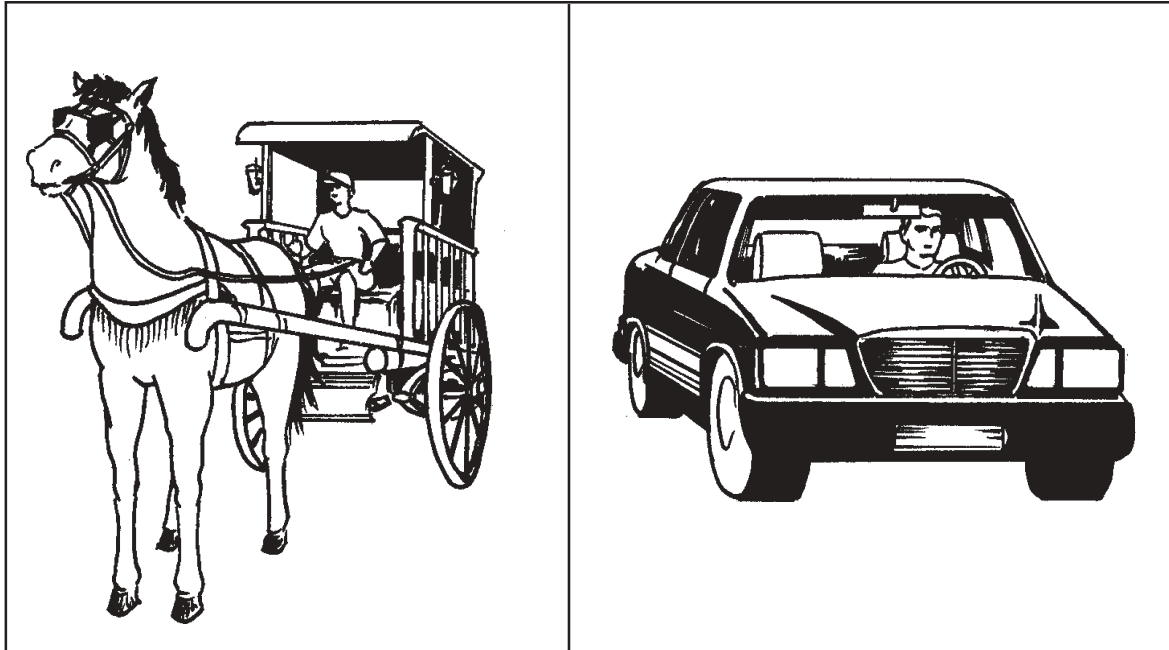
1. Inventions — \_\_\_\_\_
2. Space travel — \_\_\_\_\_
3. Machines — \_\_\_\_\_
4. Transportation and communication — \_\_\_\_\_
5. Computers — \_\_\_\_\_
6. Robots — \_\_\_\_\_
7. Electronic devices — \_\_\_\_\_

From the examples you have listed, which can help you in your everyday life? How can each help you? Check if your examples are correct. Compare your answers with those in the *Answer Key* on page 52.



The diagram on the previous page shows that technology also refers to the devices we use in our homes. We used to think that the use of technology is limited only to the rich who can afford it. But today, it is already within everyone's reach. Anyone can have it, buy it and use it.

The pictures below suggest what technology can do.



Based on the diagrams and pictures presented beforehand, can you now explain what the word **technology** really means?

---

---

---

Find out if your answer is similar to mine below.

The Barnhart dictionary defines **technology** as “the body of tools, machines, materials, techniques and processes used to produce goods and services and satisfy human needs.”

Another dictionary defines **technology** as “the science of technical processes in a wide though related field of knowledge.” It has something to do with the products of science that makes work easier, faster and more efficient. It improves our way of life.



## Let's Think About This

Look around your home and surroundings. What among the things you use daily are products of modern technology? What are not? List them down.

PRODUCTS OF MODERN TECHNOLOGY

NON-PRODUCTS OF TECHNOLOGY

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

---

Consult your Instructional Manager or Facilitator if you are not sure if you got the answers right.

Look at the list of products of modern technology below. Check those that are familiar to you and encircle those that are not.

- |                    |                 |
|--------------------|-----------------|
| cellphone          | microwave oven  |
| coffee maker       | oven toaster    |
| computer           | osterizer       |
| DVD player         | refrigerator    |
| electric fan       | rice cooker     |
| electric flat iron | stereo          |
| floor polisher     | telephone       |
| gas range          | touch lamp      |
| heater             | turbo cooker    |
| karaoke            | videoke         |
| laser printer      | washing machine |

You probably know most of the appliances listed above. Which among the list are you familiar with? All of these devices can make your work faster and more efficient. They can make your life easier and happier too. Can you tell how they can do all these? Write your answers below.

---

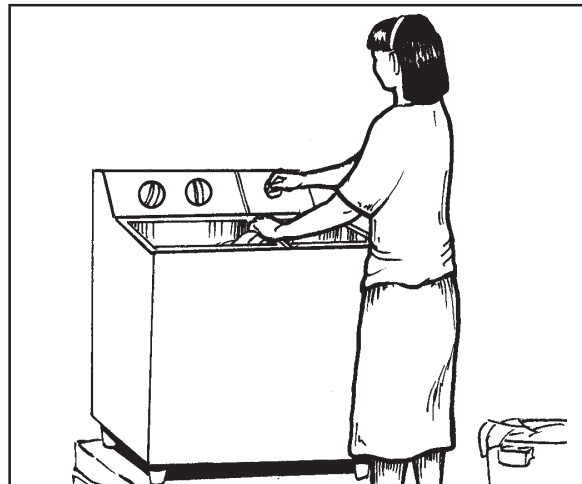
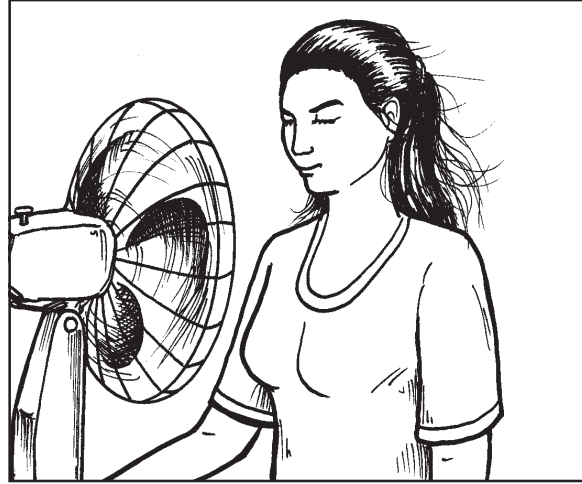
---

---

Compare your answers with this.

Imagine yourself baking a cake while cooking lunch at the same time. Or cleaning your home while doing the laundry. The things we used to do one at a time in the past can now be done simultaneously using the products of technology.

Study the following.





In each pair of pictures, you can see the big difference technology can do for us. Consider a modern appliance and point out its technological features. Compare it with your old appliance. Write a few phrases or sentences about it. Tell how it makes work easier and faster.

---



---



---



---



### Let's Try This

Think of at least three non-technological things/tools you interact/work with every day. Then write how it can be further improved on the blank opposite.

Example:	ax	—	electric ax
1.	_____	—	_____
2.	_____	—	_____
3.	_____	—	_____

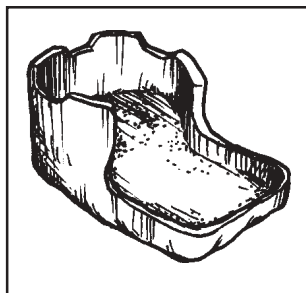
What feature did you add to improve your tool? Will that feature make your work easier and faster? How do you see life with all these modern tools around? Have you noticed that all of these use electricity in order to work? Yes, electricity is very important. Without it, many of the technological products will not work.



### Let's Review

A. Write the names of electrical devices we can use in place of the old appliances we have been using illustrated below.

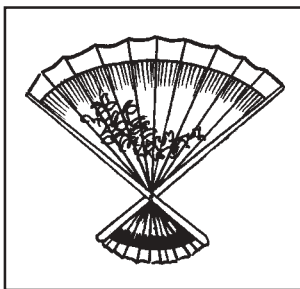
1. kiln



**Electrical Devices**

---

2. fan



---

3. coconut  
husk



---

4. paddle  
and  
basin



---

5. telegram



---

6. kettle



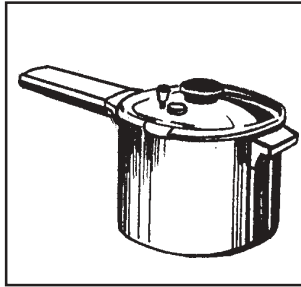
---

7. typewriter



\_\_\_\_\_

8. cooking  
pot



\_\_\_\_\_

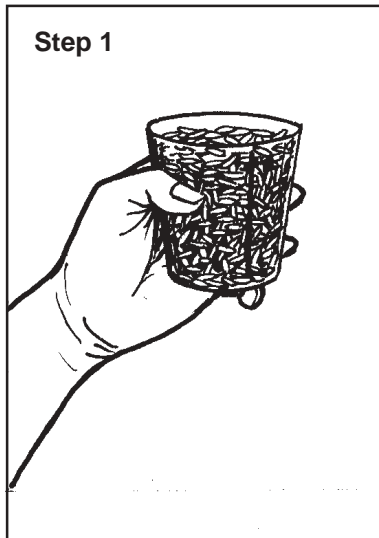
B. Explain the saying: “Necessity is the father of invention.”

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

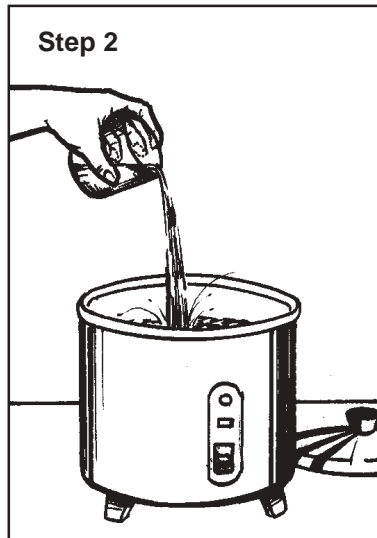
Compare your answers with those in the *Answer Key* on page 53.

What appliances do you have at home? What appliances do you see in your neighbors’ homes or in public places? Do you know how these appliances work? Turn to the next page to see how some common household appliances are used.

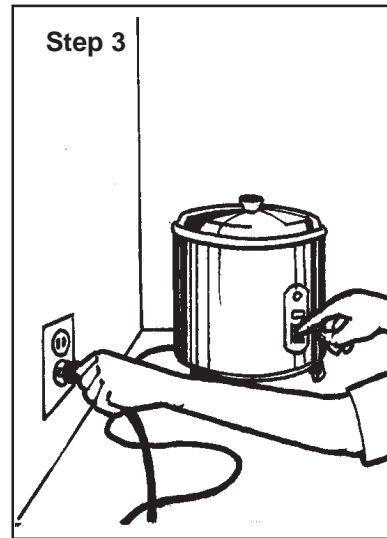
## Rice Cooker



Measure the rice.  
Use the cup provided  
for the rice cooker.



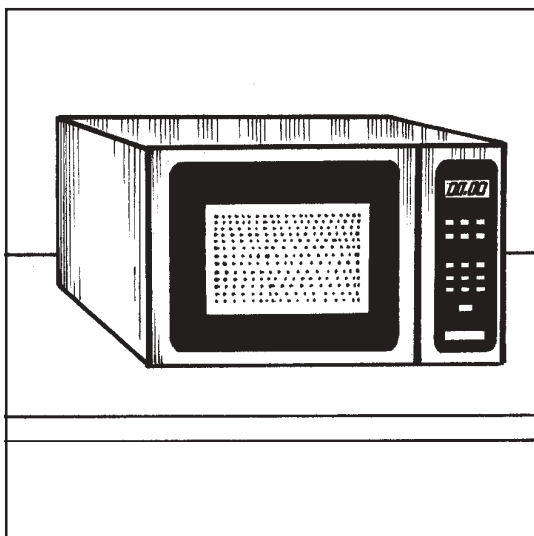
Add appropriate amount of  
water. See the manual for  
instructions. You usually add  
the same number of cups of  
water as the number of cups  
of rice to be cooked.



Plug the rice cooker to an  
outlet and press the lever to  
turn it on.

When using a rice cooker, you don't really have to check every now and then if the rice is already cooked. You know that the rice cooker automatically shuts down when the rice is cooked. You know that the rice is cooked when the warm light indicator turns on.

## Microwave Oven



What can a microwave oven do?

---

---

---

---

---

---

A microwave oven can cook, warm and thaw frozen food. You can even bake a cake in it.

What conveniences can be given by this appliance?

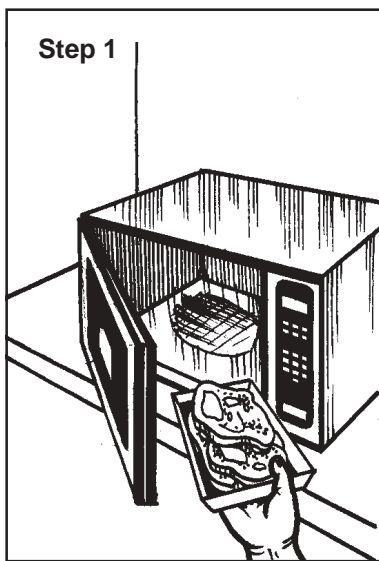
---

---

If you are in a hurry, for example, you can warm your cold food from the refrigerator in it. You can also defrost or thaw frozen food in it to save time. You can boil an egg in it as well for only two minutes.

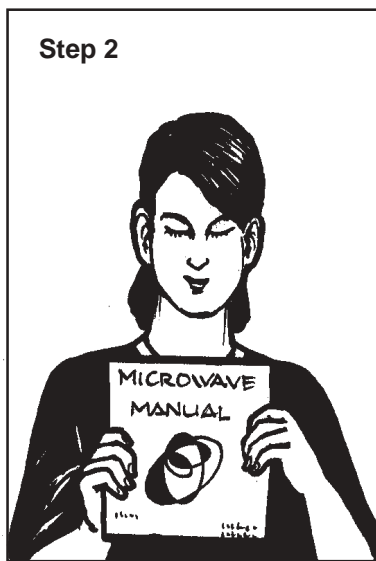
How do you use a microwave oven?

Study the illustrations and directions below.



Step 1

Put the cold food in the oven.



Step 2

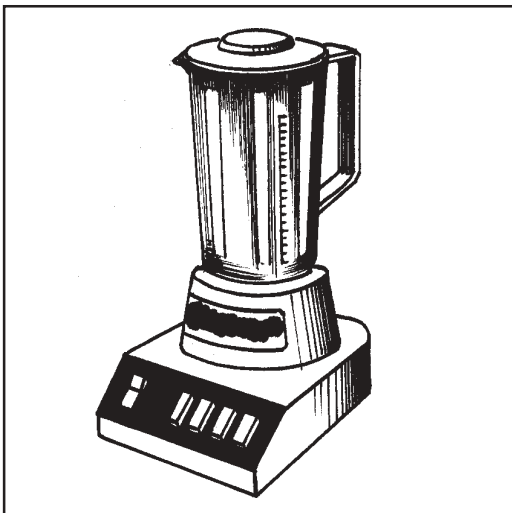
Consult the manual that goes with it. The manual will tell you how much time is needed to warm certain food.



Step 3

Set the number of minutes required to do what you want. Start it. A loud beeping sound will signal that the food is cooked.

### Blender or Osterizer



Do you know what a blender or an osterizer is for?

Write down its uses in the space provided below.

---

---

---

---

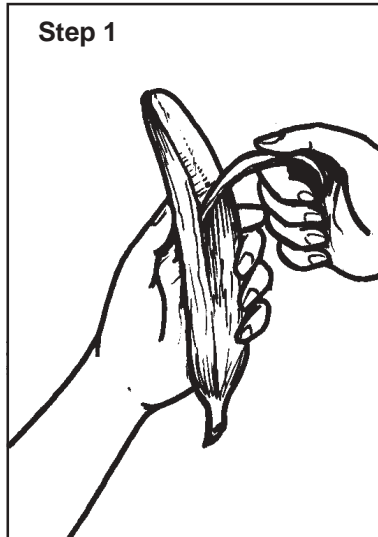
---

---

---

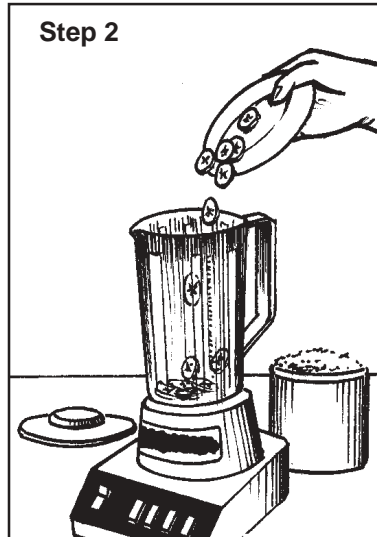
A blender/an osterizer is used to break into very fine pieces hard food such as nuts, etc. You can also blend fruits to makes shakes in it. Children can also use it to crush ice to put different flavors such as vanilla, banana, etc. on. Vegetables such as carrots, etc. can also be made into juices in this.

How do we operarate a blender/an osterizer to make fruit shake?



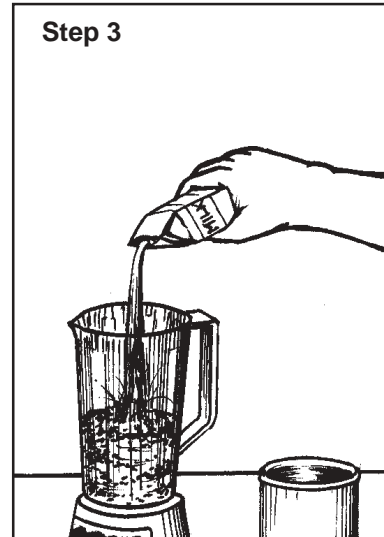
Step 1

Prepare the fruit you would like to osterize. Slice it. Prepare ice cubes.



Step 2

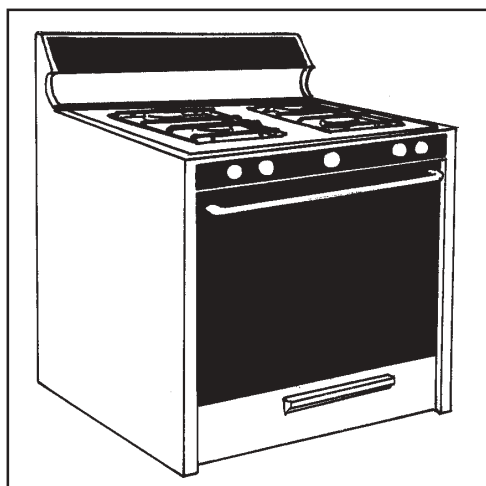
Put the fruit and ice cubes in the osterizer. Plug it and turn it on. Notice that the blades will start to rotate.



Step 3

Add sugar and milk if desired.

## Gas Range



What are the advantages of using a gas range? Write them down below.

---

---

---

---

---

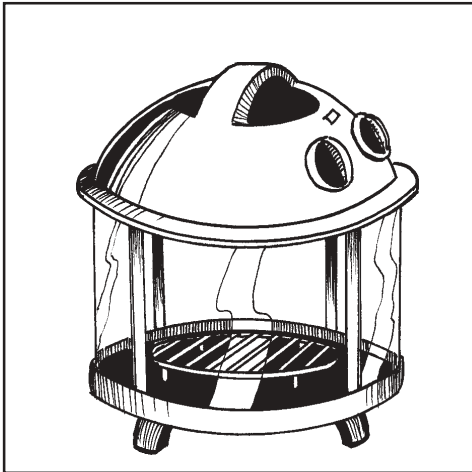
---

---

---

Cooking food in a gas range is easier and faster than using a kiln, for example. You also don't have to waste much time scrubbing the black soot caused by smoke on your pots and pans. Gas ranges come with gas tanks that can be replaced when the gas runs out.

## Turbo Broiler



Have you tried baking or roasting a whole chicken? How did you do it? Write your answer below.

---

---

---

---

---

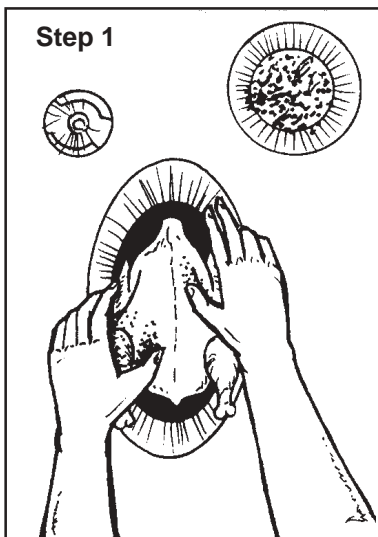
---

---

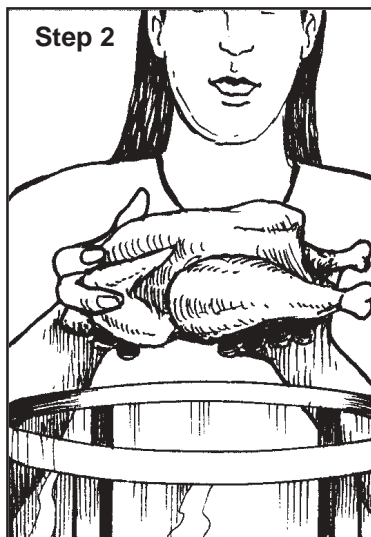
---

All you need is a turbo broiler to do this.

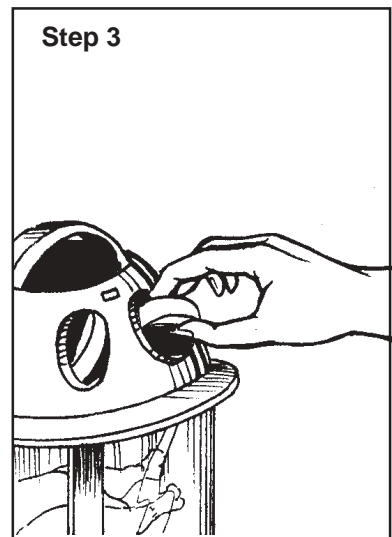
How do you use it?



Prepare the chicken. Rub the ingredients on the chicken.



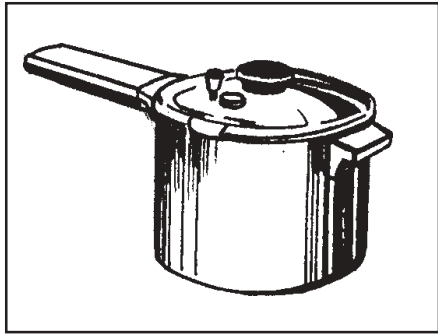
Put the chicken in the broiler and set it according to the manual.



Start the broiler. You will know that the chicken is cooked when it turns golden brown.

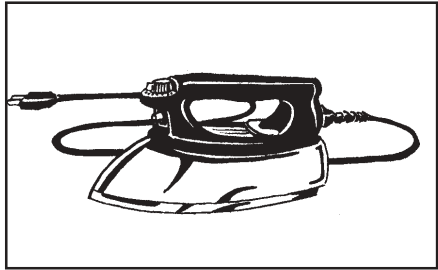
## Pressure Cooker

Have you tried boiling meat especially beef for a long time? Notice how long it takes to make beef tender enough to eat.

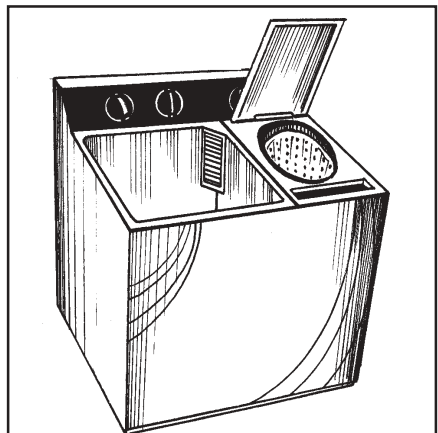


A **pressure cooker** is a casserole designed specifically for this purpose. It is made of hard steel for high temperatures and long-time cooking. The pressure inside increases the temperature to cook the food faster. The food then becomes more delicious because it's soft and juicy.

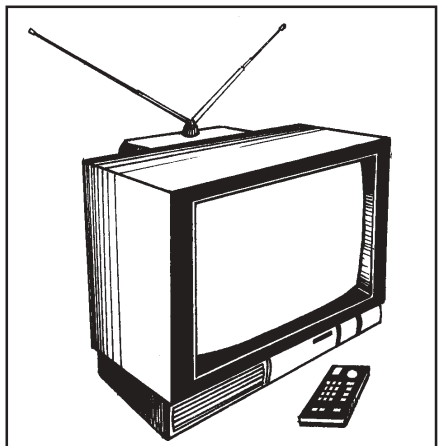
Here are other household appliances that can be very helpful to people.



An **electric iron** is an appliance used for ironing clothes. Many electric irons have different settings for different clothing materials. Some even have built-in water sprinklers that you can switch on to dampen clothes.

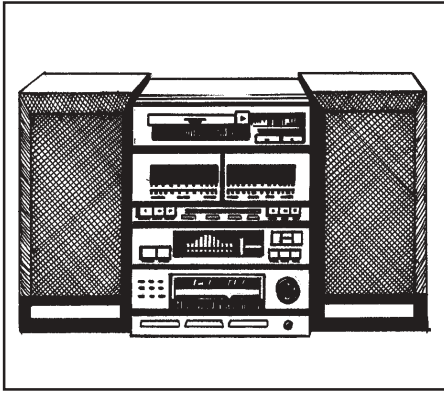


A **washing machine** makes washing clothes easier and faster. All you have to do is add soap and water and set the machine according to the kinds of clothes you are washing. Then start it. It automatically turns off when the washing is done. Some washing machines come with dryers for faster drying.



A **television set** is the most common electrical appliance found in homes. Most T.V. sets are cable ready, whether black and white or colored. A T.V. set allows people to watch various shows to become aware of what's happening around them.





A **stereo** nowadays most often than not has a CD player, a cassette player and a radio. Some stereos even have built-in CD players aside from their usual audio capabilities.

The following are some of the latest appliances in entertainment technology. Learn about them and learn to use each one. You might own some or all of them in the future.



What do you see in the picture on the left? You see a girl singing while looking at the T.V. screen. She is using what is called a **videoke set**.

Why do you think the girl is looking at the T.V. while singing? Write your answer below.

---

---

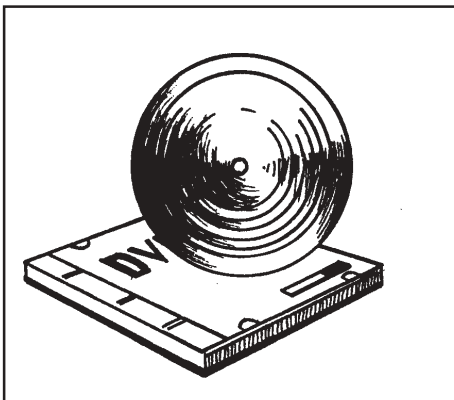
---

---

---

---

If you said that she's reading the lyrics of the song, you're right. The videoke is designed for all types of singers from amateur to professional. Singing is more fun using the videoke than an ordinary stereo because it is accompanied by a video clip.

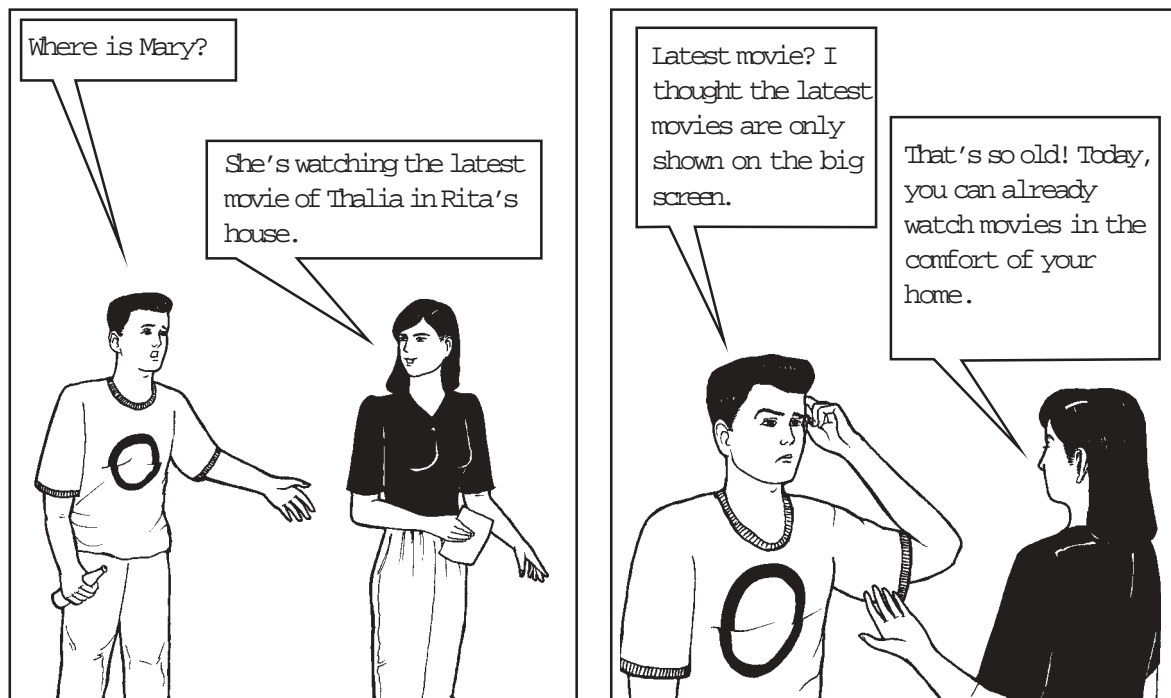


There are two types of videoke machines, those that use VHS tapes and those that use DVDs (digital video disks).



## Let's Read

Read the comic strip below.



Based on the comic strip you have just read, can you guess what kind of technological product is being referred to? Write your answer below.

---

---

Check which of the following you are familiar with:

Betamax     VHS     DVD     Personal computer

I'm sure you know what a betamax player and a VHS player are. You have just learned about the DVD player and the personal computer as devices used at present.



What do you think the girl in the picture above is doing? Write your answer in the space below.

---

---

---

She is playing the Play Station. It is an electronic device that also uses a disk. This disk contains games presented in cartoon form. It allows the viewer to interact with it and manipulate the games or characters through the handset.



## Let's See What You Have Learned

Find out how familiar you are with the different household appliances. Identify what household appliance can be used in the following situations.

1. You have plenty of ripe mangoes and you want to make a mango shake. What household appliance would you use? \_\_\_\_\_
2. Some visitors arrive in your house and you are caught unprepared. All of your meat and fish are frozen. What appliance can help you immediately thaw or defrost the frozen food? \_\_\_\_\_
3. You have plenty of household chores and yet you have to do your laundry. What can help you do your laundry while cleaning the house?  
\_\_\_\_\_
4. You have a television set and a DVD player. What else do you need to sing a videoke? \_\_\_\_\_
5. It takes you a lot of time to clean and scrub black smoke stains from your pots and pans when you use your kiln. What alternative appliance can you use? \_\_\_\_\_

Compare your answers with those in the *Answer Key* on page 53. If you did well, congratulations. If you didn't, just reread the parts you made mistakes in before going to Lesson 2.



## Let's Remember

- ◆ Technology refers to the body of tools, machines, materials, techniques and processes used to produce goods and services and satisfy human needs.
- ◆ The following are some of the most common technological products at present.
  - electric fan
  - washing machine
  - gas range
  - electric stove
  - floor polisher
  - personal computer
  - coffee maker
  - pressure cooker
  - rice cooker
  - microwave oven
  - blender/osterizer
  - turbo broiler
  - electric flat iron
  - television set
  - stereo
  - DVD player
  - Play Station

## Technology: Man's Best Friend

Now, you can proudly say that you are not only familiar with some newest technological devices but you can also tell your friends that you know how to operate them.

But what does technology really do for you? Can it really make your life easier?

Imagine yourself riding in a time machine. If it brought you back to the Spanish era in the remotest part of the Philippines when there was no electricity yet, would you survive? Make a list of your views on how was life before and now.

**Life before was . . .**

*Example:* boring

---

---

---

---

---

---

---

---

**Life now is . . .**

*Example:* exciting

---

---

---

---

---

---

---

---

Based on what you have listed, draw your own conclusion about the state of life before and now. Write your answer below.

---

---

---

---

Compare your answers with mine.

**Life before . . .**

- slow
- difficult
- wasted much time
- tasks were complicated
- work required a lot of manual labor
- traveling took a long time
- unpredictable

**Life now . . .**

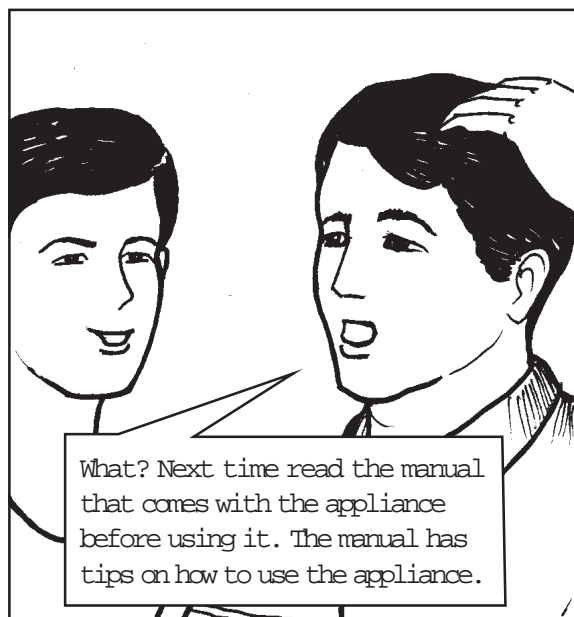
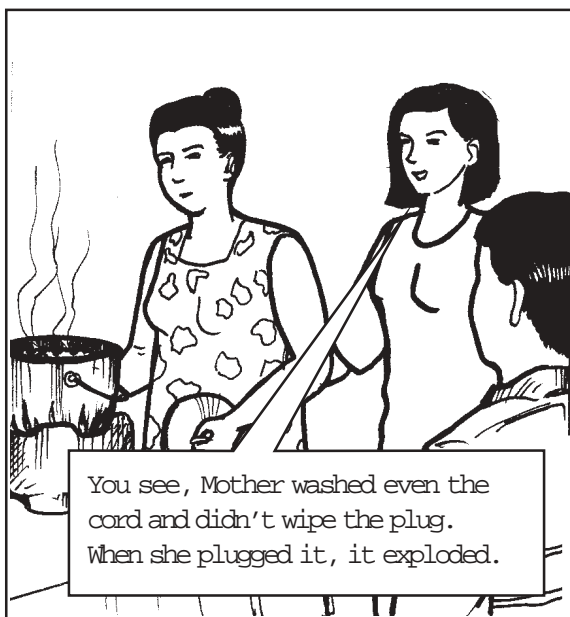
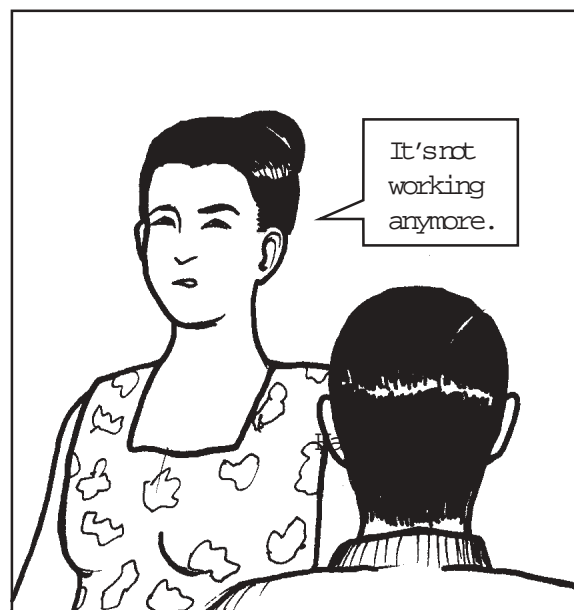
- fast
- easy
- save so much time
- tasks can be done faster
- work is lighter with the help of electronic devices
- traveling is faster
- safe

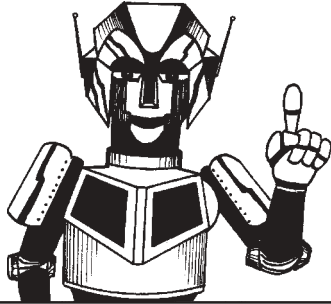
Technology has changed man's lifestyle. Housewives before spent a lot of time doing household chores. But times have changed. Housewives now have a lot of time to do other things because electronic devices make their household chores easier and can be done faster.

All these technologies despite their capabilities will be for nothing if we do not learn how to use them properly. Appliances like any other tools, will not last long if they are not handled and cared for properly. Almost all if not all of our appliances at home use electricity. But one must be very careful when it comes to using electricity.



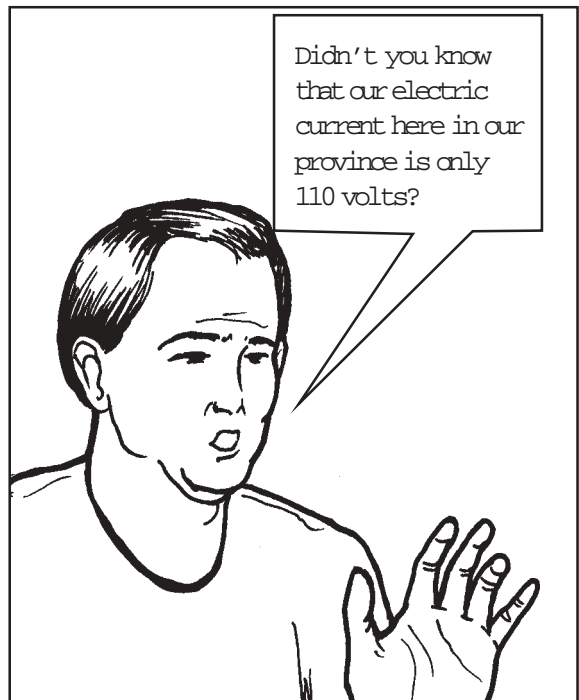
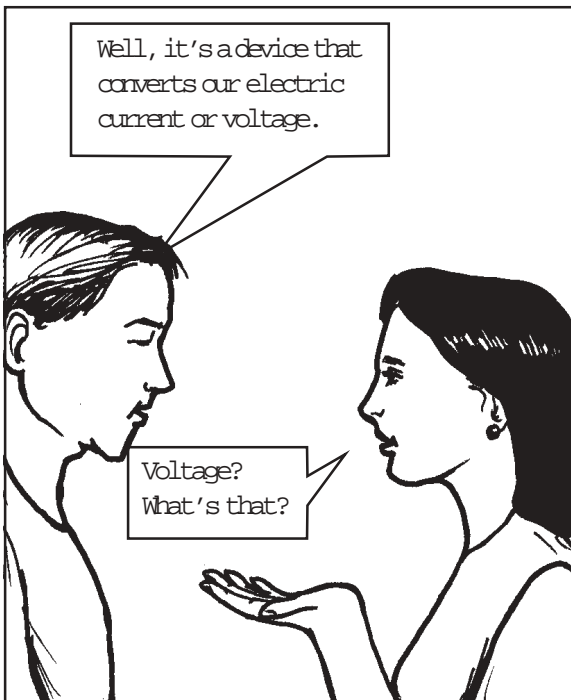
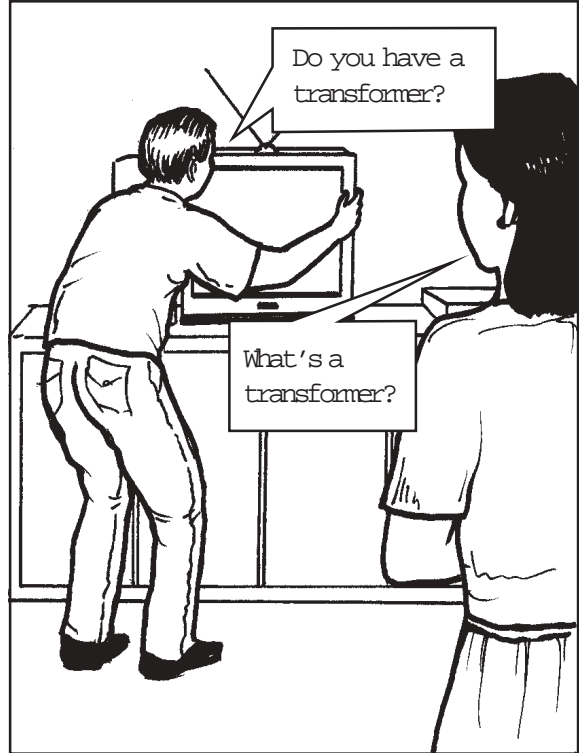
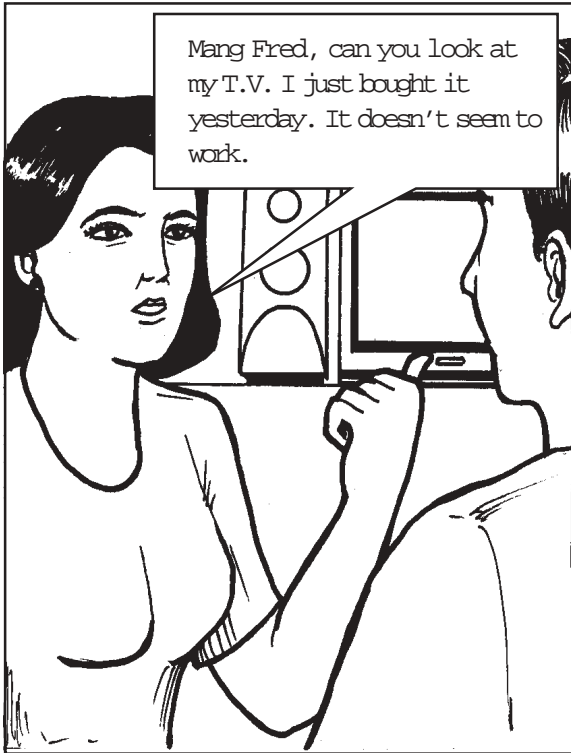
## Let's Think About This

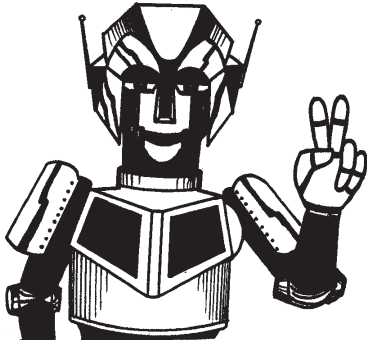
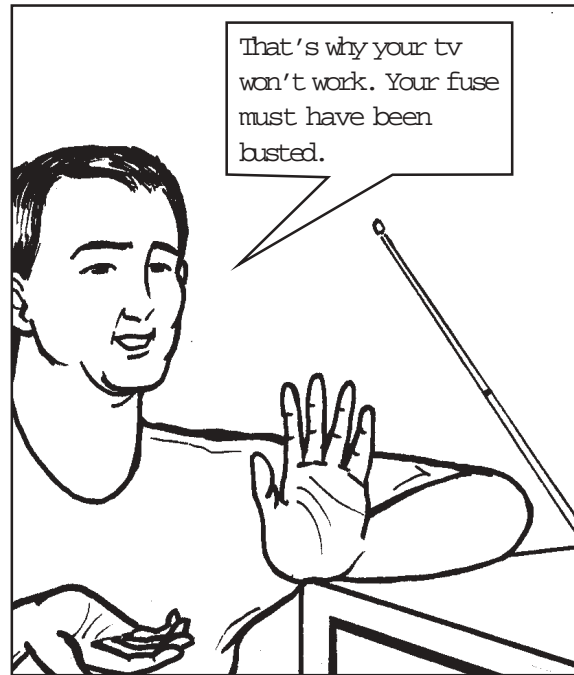
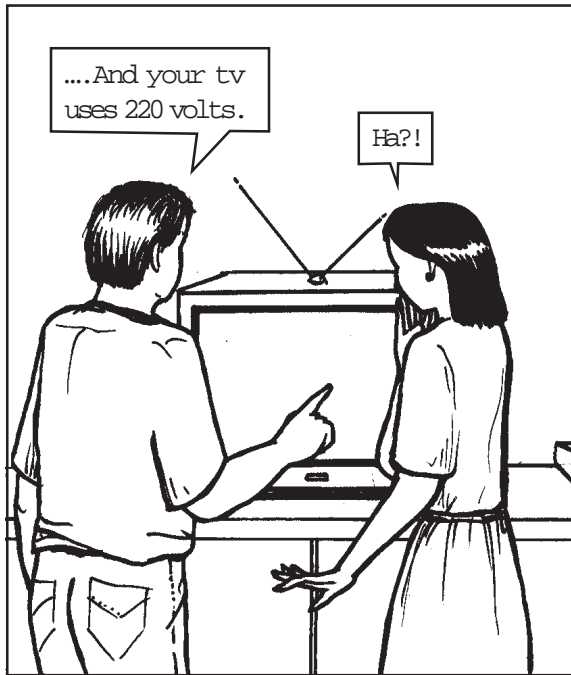




### Reminder 1

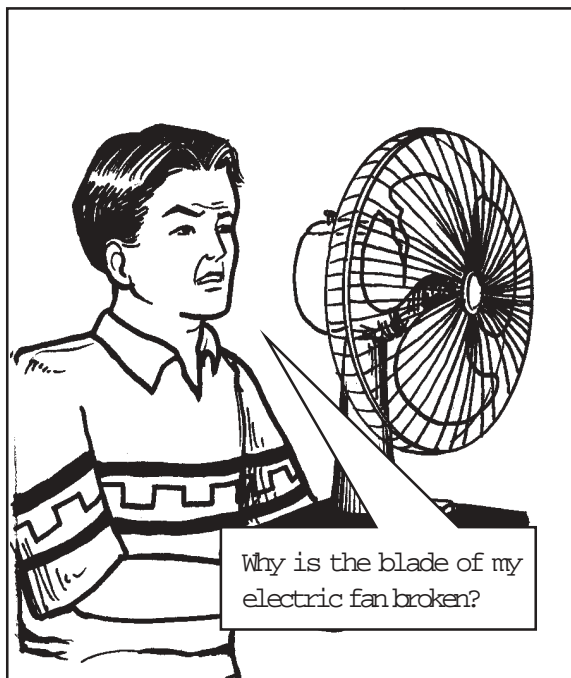
All electrical appliances have sensitive parts that must not get wet.



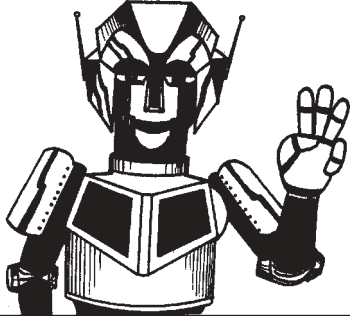


### Reminder 2

We use two kinds of voltages here in the Philippines, 110 V and 220 V depending on what part of the country you are in. Imported appliances also use different voltages. So, check every appliance's voltage requirement first before using it.





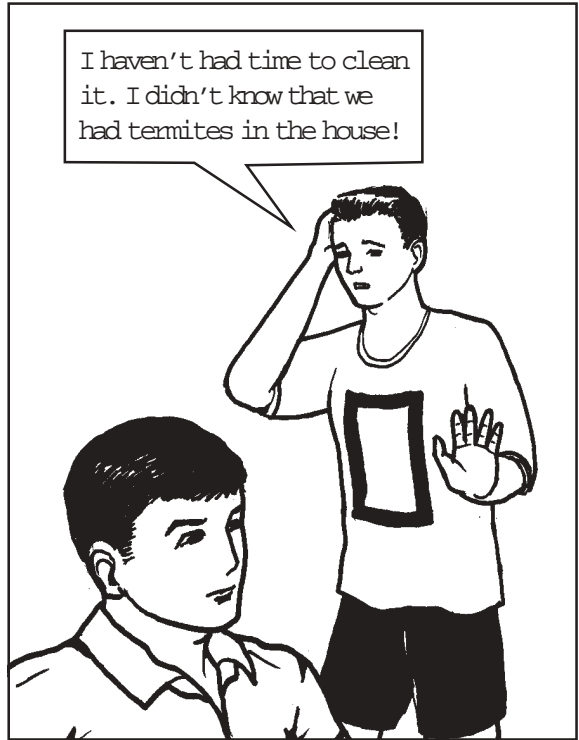


**Reminder 3**

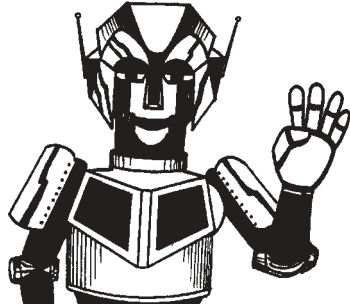
Many appliances have parts that can be easily broken if not handled properly. Be careful when you use them.



Your stereo doesn't work because it is very dusty and there are termites inside it!

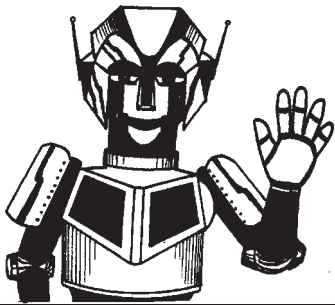


I haven't had time to clean it. I didn't know that we had termites in the house!



**Reminder 4**

Keep your electrical appliances away from dusty places. Clean them regularly.



#### Reminder 5

Electrical appliances come with manuals when bought. Don't forget to read the manual before using the appliance. Don't assume too much.



### Let's Think About This

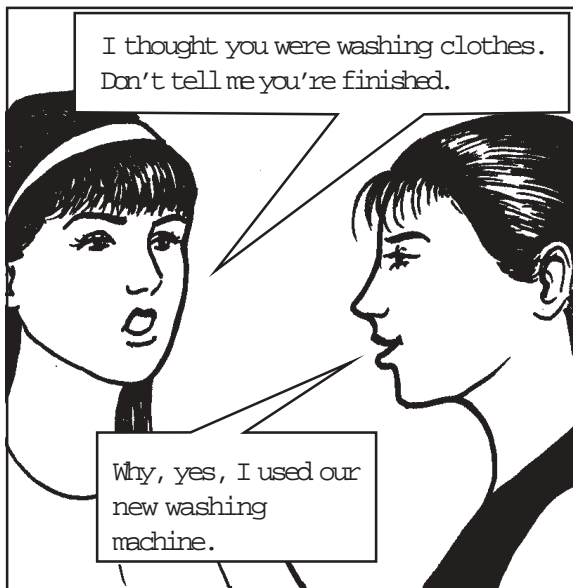
List down the most effective ways of taking care of our electrical appliances at home. The reminders given earlier will help you complete your list.

Compare your answers with those in the *Answer Key* on pages 53 and 54.

After learning about the uses of various technologies, have you ever wondered how they affect your life? Do they even fit your lifestyle? Why/Why not?

Before answering given questions, study real-life situations on the next page.

## Situation A

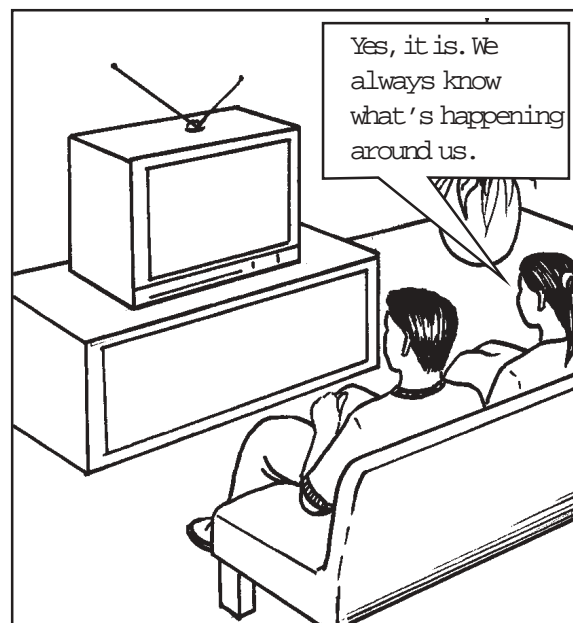
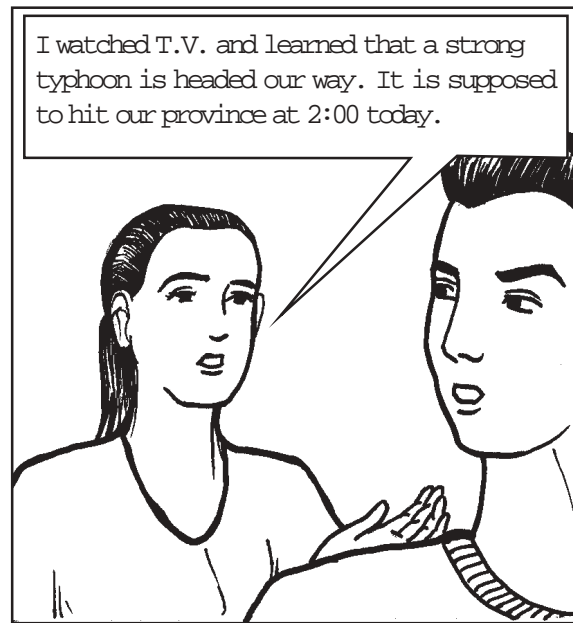


In the preceding situation above, what was the second woman able to save by using the technological devices properly?

- a. money
- b. electricity
- c. time and effort
- d. resources

If your answer is time and effort, you are right. Refer to the *Answer Key* on page 53 for the reason why.

## Situation B

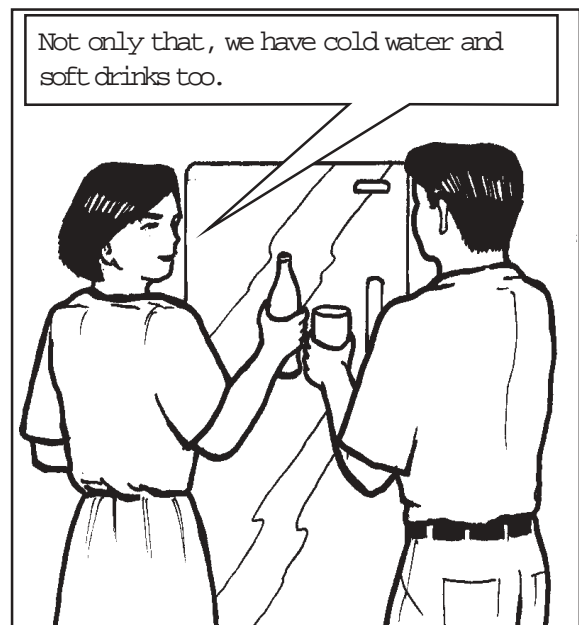


In the preceding situation, how was technology able to help the fisherman?

- a. helped him earn a living
- b. saved him from incoming danger
- c. saved him from losing his income
- d. provided him with his needs

Which answer did you choose? Does technology help save lives? We should not take for granted the things technology has to offer. Compare your answers with those in the *Answer Key* on page 53.

## Situation C



In this situation, what household appliance was very useful?

- a. microwave oven
- b. osterizer
- c. turbo broiler
- d. refrigerator

What answer did you choose? How helpful is technology to you? Can you live without technology?

Compare your answers with those in the *Answer Key* on page 54.

After reading the preceding comic strips, can you now answer the previous questions? How do these technologies affect you? Do they fit your lifestyle? Why/Why not? Write your answers below.

---

---

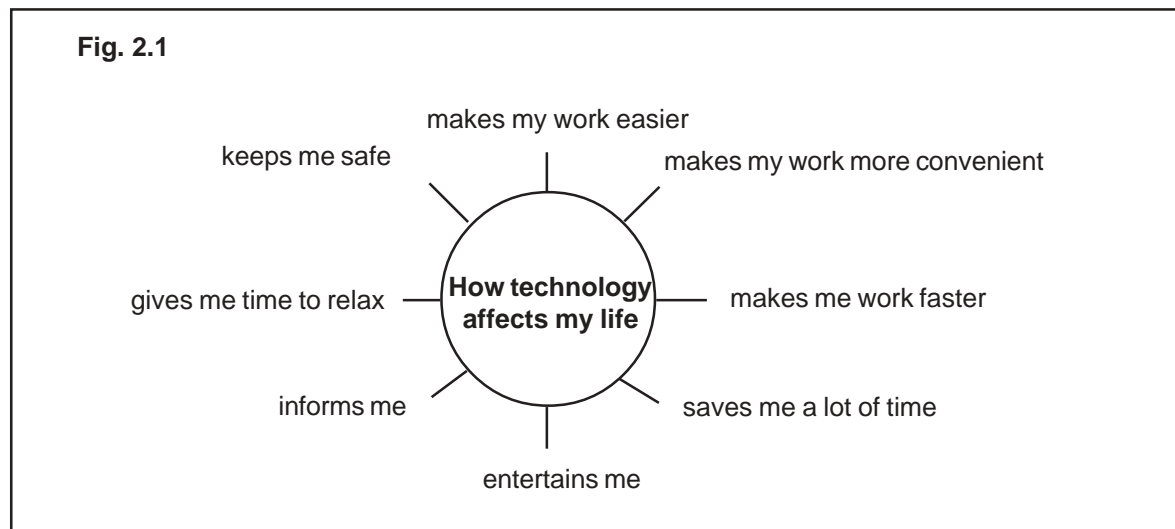
---

---

Modern technology will definitely fit everyone’s lifestyle at present. They were invented for everybody’s use. If you’re a housewife, farmer, laborer, fisherman, etc., these technologies were made for your use and enjoyment. Who says you can’t use a washing machine if you’re living near a river? Or T.V. if you’re in the middle of a forest?

The use of technologies are limitless. Anyone and everyone can use the products of modern technology.

The situations that were presented to you can be illustrated by the following figure.



## Let's See What You Have Learned

Write a paragraph about how you can use different technologies in your daily life. What technology will best help you do your work?

---

---

---

---

What other things can you do after work? List them down below.

---

---

---

Compare your answers with the samples in the *Answer Key* on page 54. Did you get similar answers to mine?



## Let's Remember

- ◆ Technology indeed helps us make our work easier. Because of this, our lives become easier to live as well.
- ◆ Always remember the following tips when using products of modern technology.
  - All electrical appliances have sensitive parts that must not get wet.
  - We use two kinds of voltages here in the Philippines, 110 V and 220 V depending on what part of the country you are in. Imported appliances also require different voltages. So, check every appliance's voltage requirement first before using it.
  - Many appliances have parts that can be easily broken if not handled properly. Be careful when you use them.
  - Keep your electrical appliances away from dusty places. Clean them regularly.
  - Electrical appliances come with manuals when bought. Don't forget to read the manual before using the appliance. Don't assume too much.

## Communication Technology: Your Link to the World

Technology does not only mean electrical household appliances. There is more to technology than we already know. New technologies are used in many different fields such as agriculture, transportation, medicine, education, communication and many more. But one of the most important benefits of technology has to do with communication. People around the world today get to know each other better, and exchange ideas, services and products faster through the use of modern communication technology. Though we are far apart and separated by miles of land and water, modern communication has been able to bridge distances and keep us together.

In this lesson, you will get to know the different communication technologies. You will also learn how each is being used and their effects on man's life.



What are the two men in the picture above doing? They are talking. Talking with one another is the most common means of communication. What are the other ways by which you can communicate with others without the use of technology?

People can communicate through . . .

---

---

---

---

---

---

---

---

---

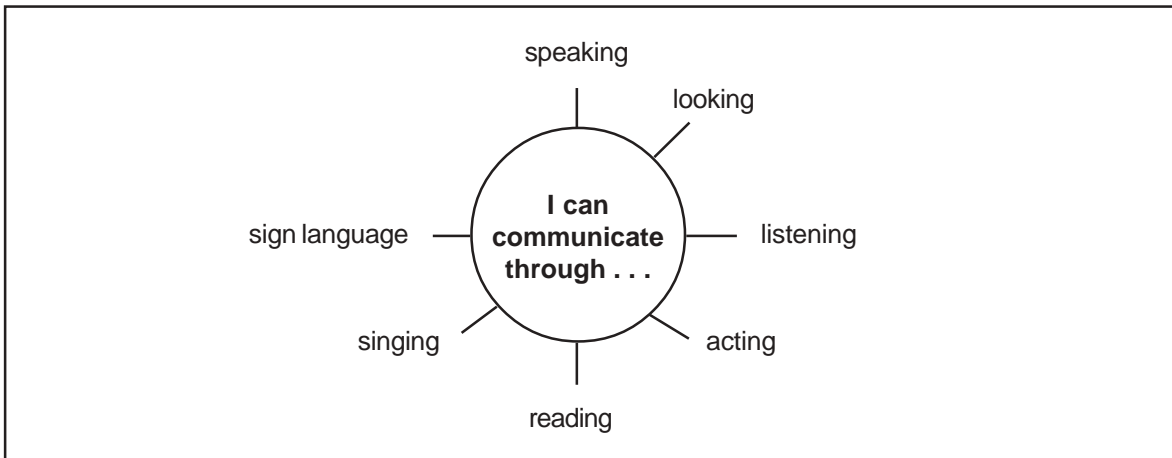
---

---

---



It is likely that you have listed ways of communicating with people similar to those in the figure below.

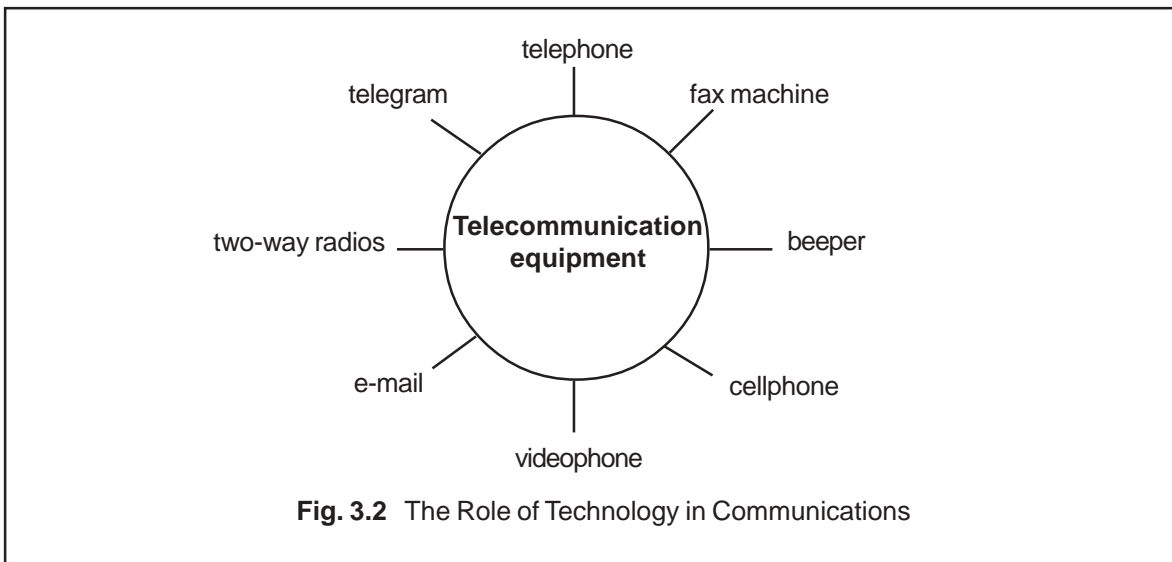


Can you do all the things listed in the figure above?

Have you ever heard or read anything about telecommunications?

**Telecommunications** refer to the transmission of information over long distances by sending out signals. Early forms of telecommunication involved visual signaling — using flags in semaphore, smoke signals, flares, lamps, etc.

Are you familiar with some of the communication devices listed below? Which devices are new to you? Don't be surprised if next year, you will see new communication devices in the market. This is how fast and modern our communication tools or equipment are becoming.





## Let's Think About This

Write at least two to three sentences that tell what you know about the telephone.

A telephone is \_\_\_\_\_

\_\_\_\_\_

What can it do? \_\_\_\_\_

\_\_\_\_\_

What can it not do? \_\_\_\_\_

\_\_\_\_\_

Below is a list of what the telephone can and cannot do. How much do you know about it? Put a check (✓) before what a telephone can do and a cross (✗) before what it cannot do. Then review the sentences you wrote in the previous exercises. Your answers below will help you check if they are correct.

- \_\_\_ 1. A telephone can send written messages or greeting cards.
- \_\_\_ 2. A telephone can now help you buy goods from a supermarket.
- \_\_\_ 3. A modern telephone can show you who you are talking to.
- \_\_\_ 4. A telephone can help you pay your bills without actually going to the bill center.
- \_\_\_ 5. A telephone can record your messages if you are not around to personally take the calls.
- \_\_\_ 6. A telephone helps you with your household chores.

Most of us are already familiar with telephones. But which of its features listed above are new to you?

A telephone is a communication device that uses cables to transmit your messages to their destination.

How does a telephone transmit your voice to another person at the end of the line?

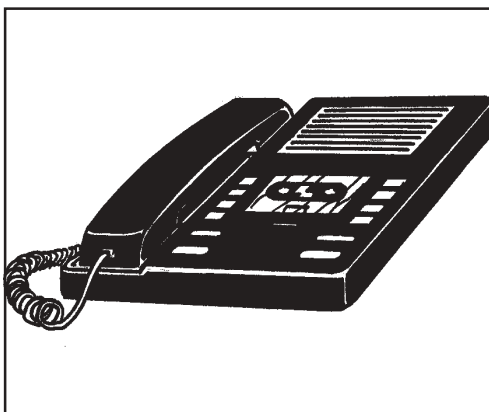
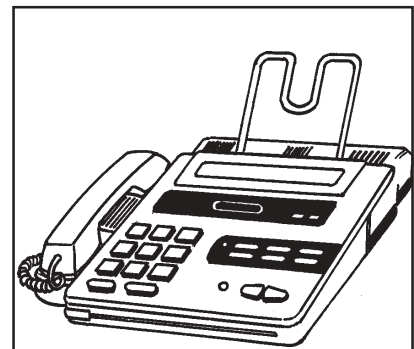


When you talk into a standard telephone or land phone, the microphone in the mouthpiece converts your voice into electric pulses. These pulses run through the wires of your phone through a socket on the wall. Then they run through cables outside your house and through a switch center that receives and relays your call. The center then directs the signals to the telephone of the person you wish to talk to.

Once the signals reach the receiving end of the call, a device in the earpiece of your friend's phone converts the electric signals back into your voice.

The following are the things that a telephone can now do for you.

A telephone that sends written messages is called a **telefax machine** or **facsimile transmitter**. This is a device that scans and translates a copy into signals for wire transmission. It works like a photocopying machine.



Another feature added to most telephones today is the **answering machine**. This has a built-in recorder that records the messages of your callers when you're not around. When you get back, you can call back those who left messages for you.

Paying your bills through the phone is now possible. You can pay your electric bills, water bill or credit card bill by just calling your bank. This is made possible through a computer network that sends, receives and transacts or deals with different accredited establishments.



Another improvement on the telephone is the creation of the **videophone**. This has a built-in camera that helps you see the person you are talking to and not just hear him/her. Such a telephone though is not yet available here. But there are a number of such phones in the U.S.A. and Europe.

Is the device in the picture on the right familiar to you? What is it called?

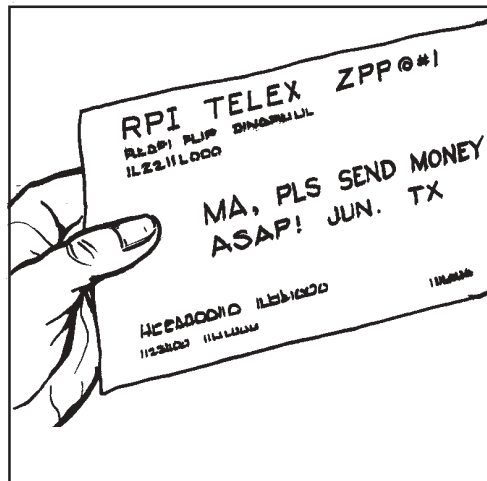
---

Have you ever received similar messages as in the picture on the right before?

---

What do you call this kind of message? \_\_\_\_\_

The object in the picture is a **telex message** or **telegram**.



Why do we use incomplete or broken sentences in telegrams?

---



---

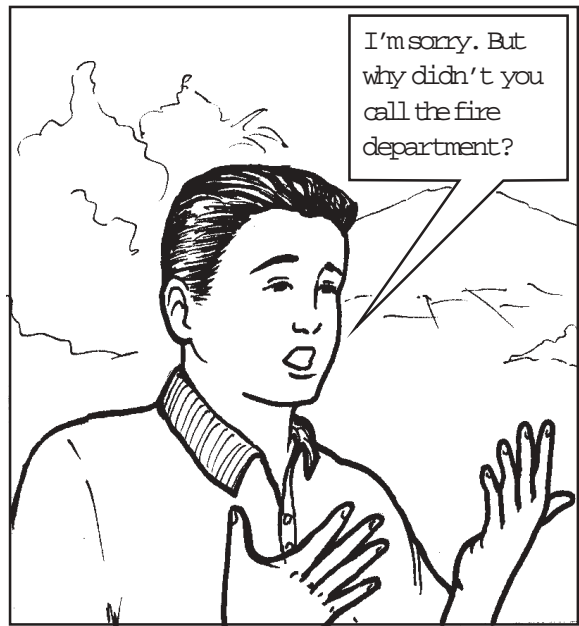
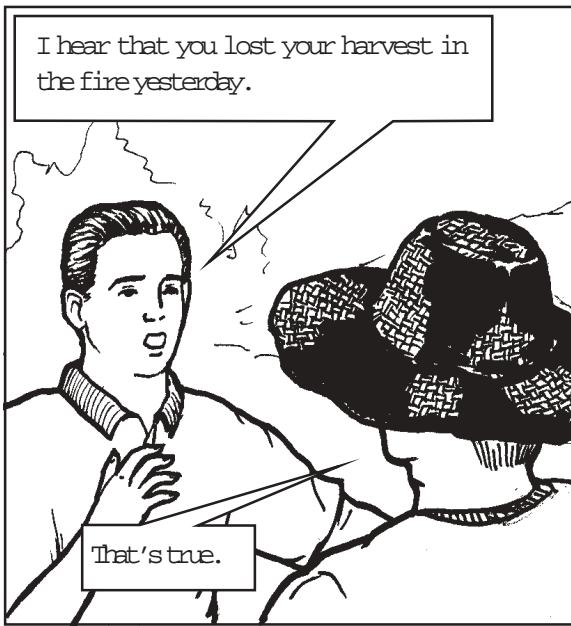


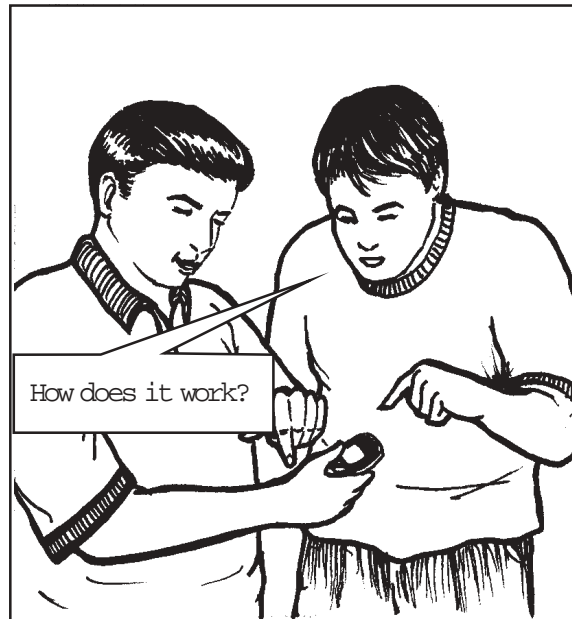
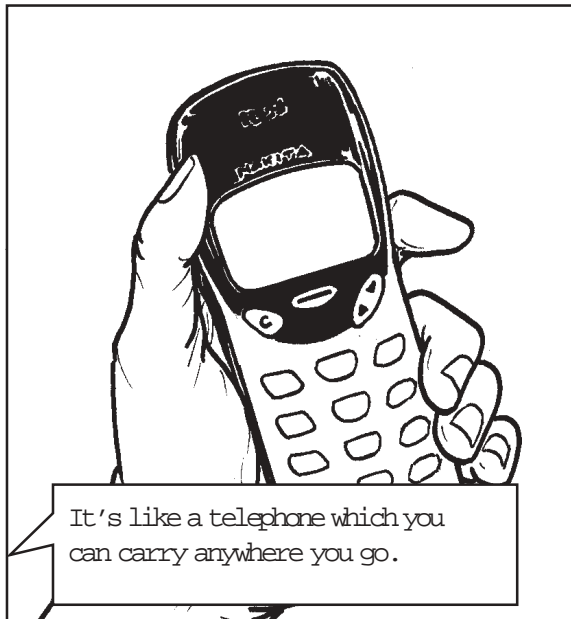
---

Is your answer similar to mine?

Telegrams are paid based on the message they contain. The shorter the message the more money you save.

Study the situations in the following comic strips.

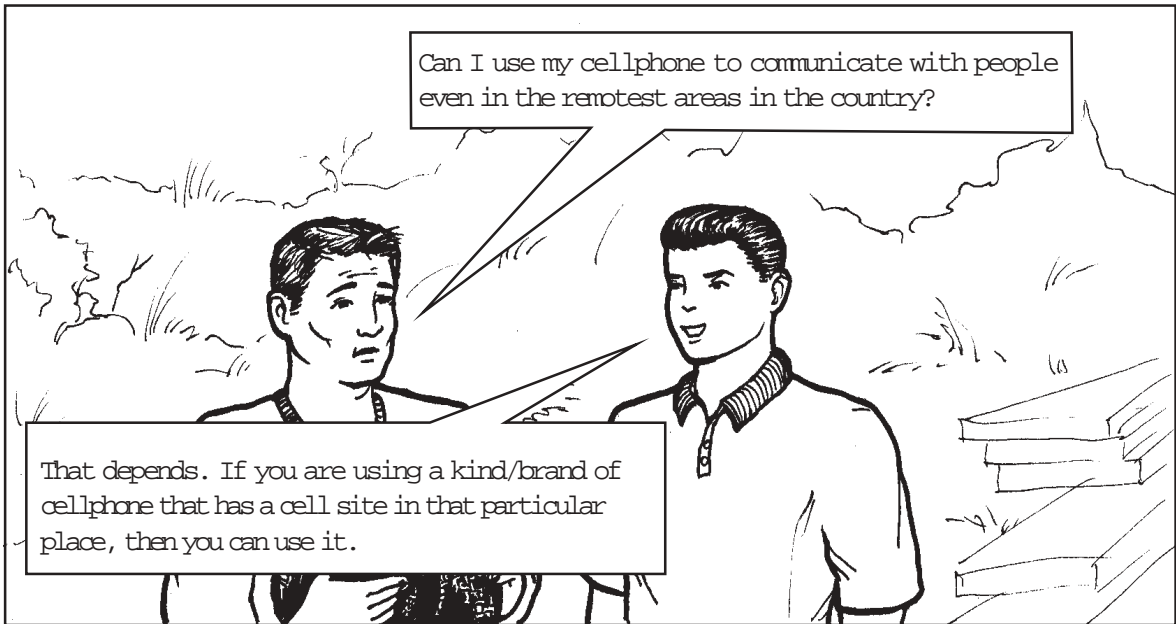




**Mobile phones** (better known as cellphones) are like T.V. sets and radios. They use radio waves in transmitting messages. Unlike ordinary telephone, cellphones do not use cables.

**Radio waves** are invisible energy waves that are widely used in communication. Cellphones are connected via these invisible waves in a network that makes use of cables, antennas and satellites.





Cell sites are strategically placed so that cellphone users can reach far places. Can a cellphone user call someone who is out of range of a cell site? Why/Why not?

---

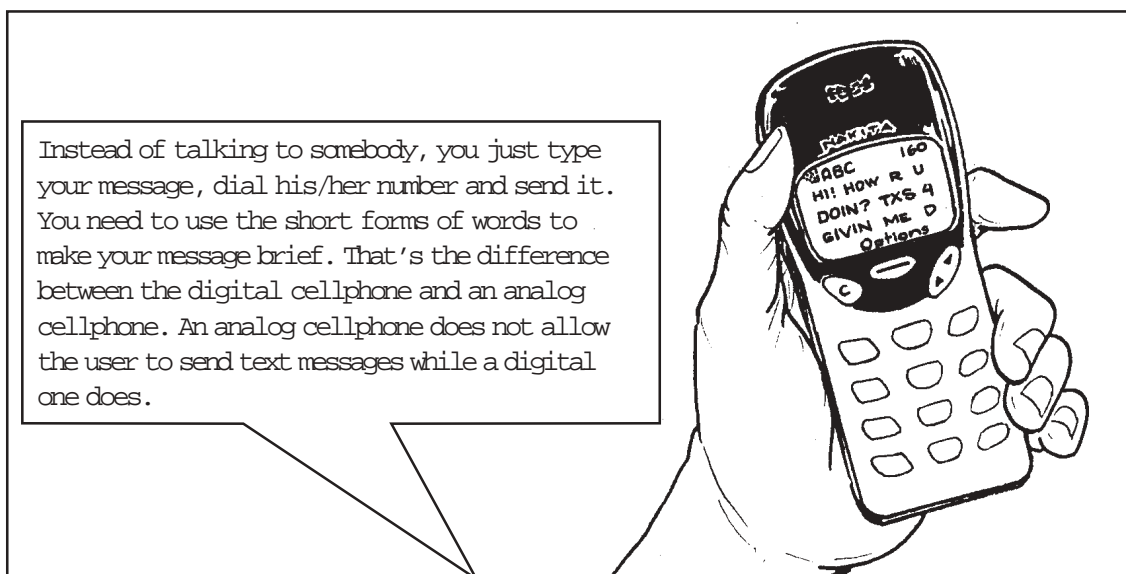
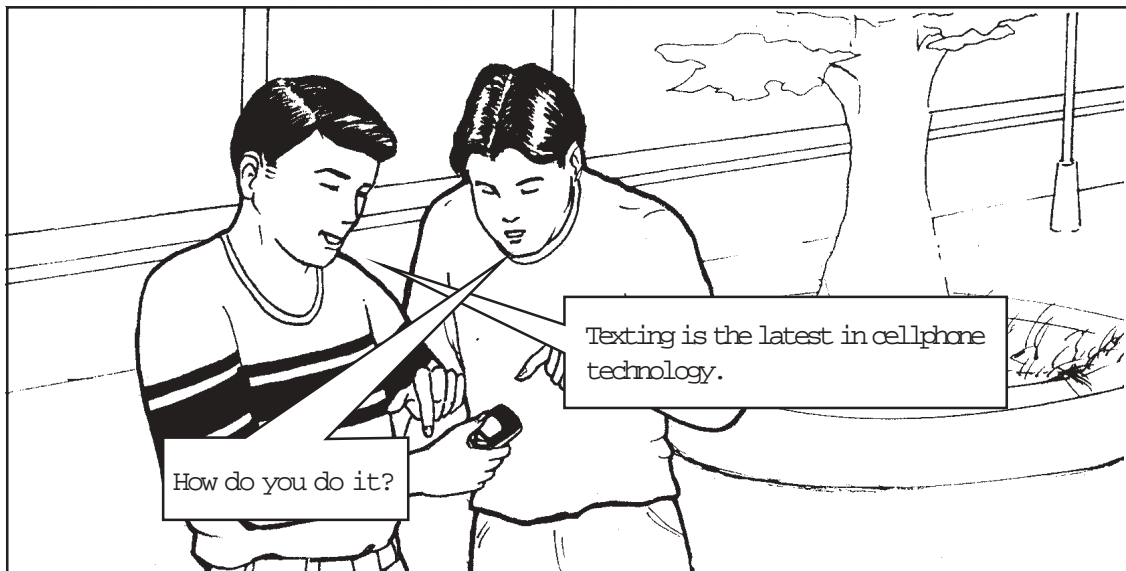
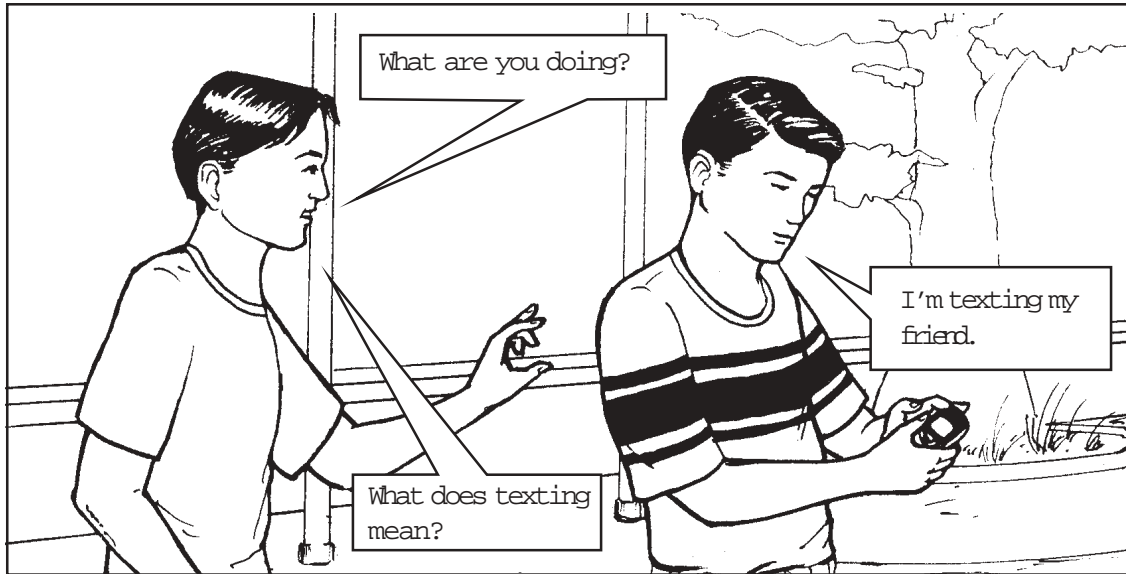
---

---

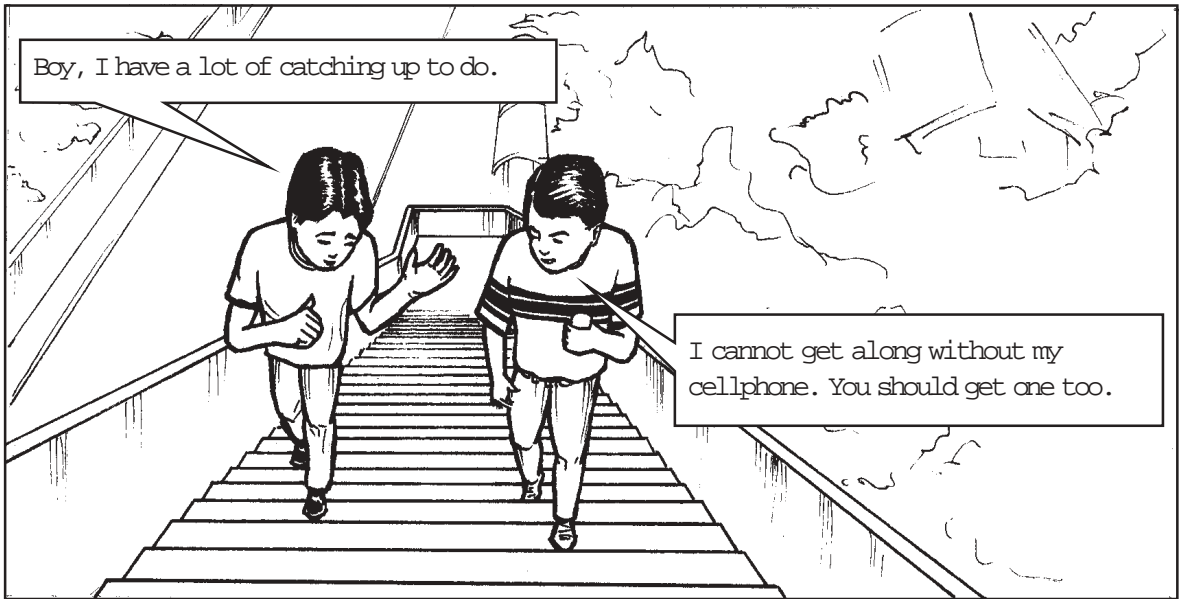
Cell sites relay your messages, if there is none near you, then you have no network coverage.



## Let's Think About This







What are the advantages of texting?

---

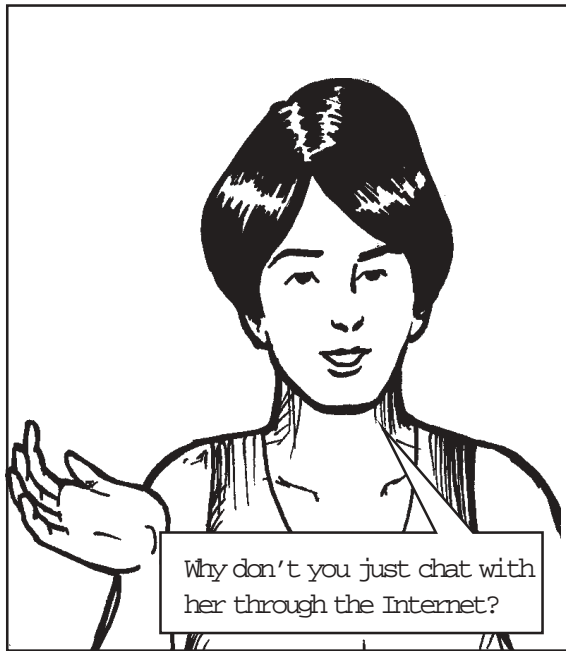
---

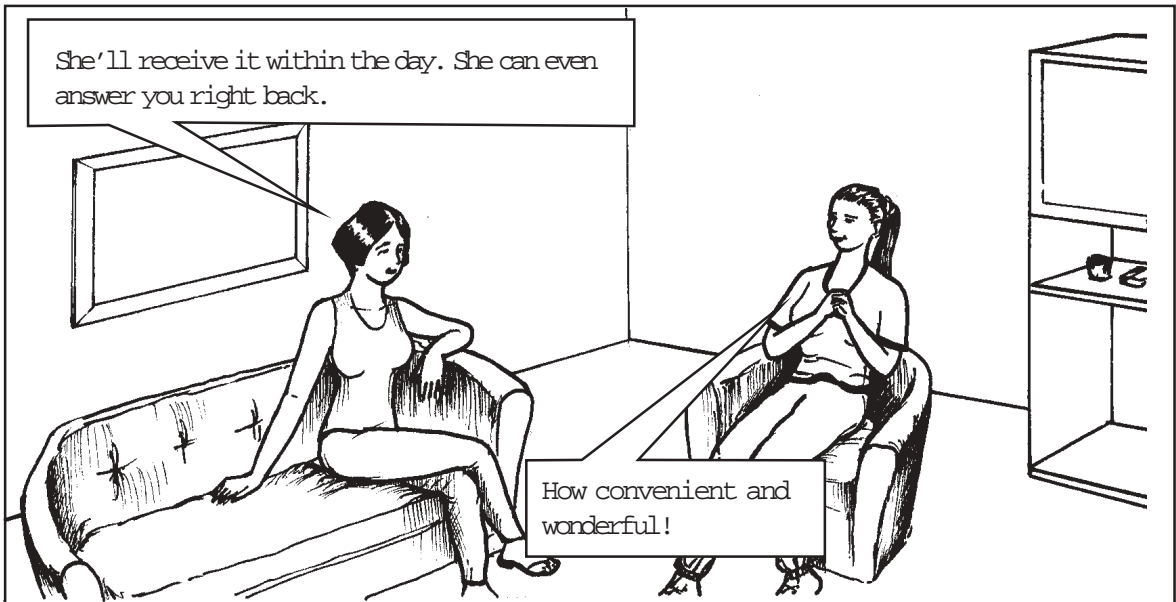
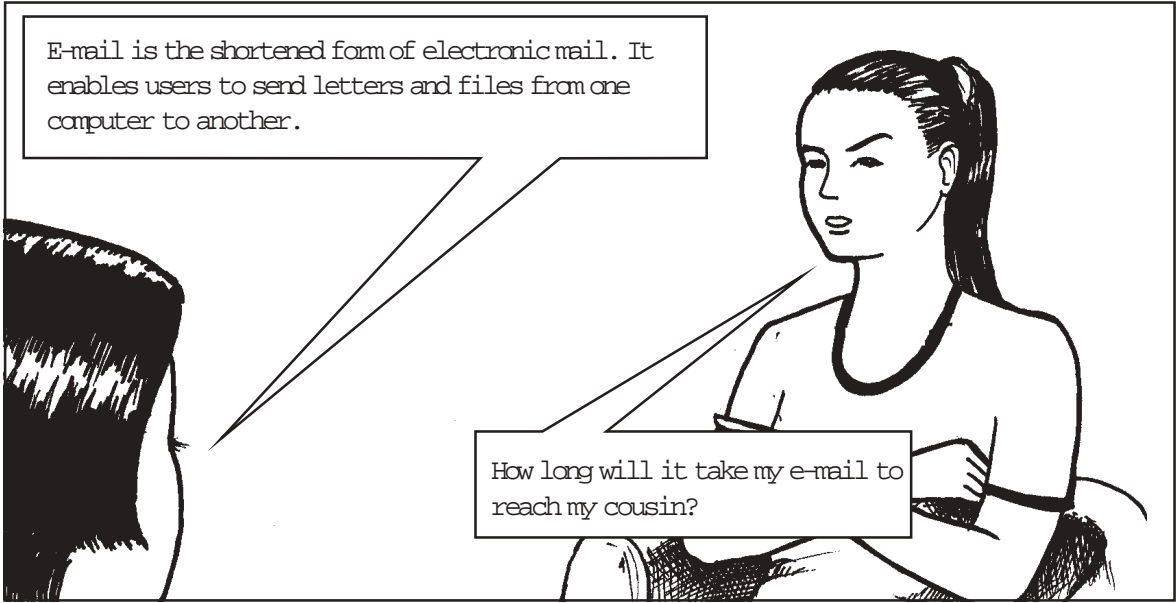
---

---

---









## Let's Try This

What would you do if you had an opportunity to use the Internet?

---

---

---

---

Compare your answer with mine. If I were you, I will chat with friends and relatives with e-mail addresses.

What other things can the Internet offer aside from e-mail?

---

---

---

---

The Internet provides information on whatever things interest you: products and services, latest foreign and local news, your favorite movie stars, your horoscope and many more.

Do you have friends or relatives in other countries that you want to write to? Why don't you send them e-mails?

The **Internet** is an international network connecting smaller networks in more than 200 countries. These networks or groups of computer users are formed by educational, commercial, nonprofit, government and military organizations.

What do you need in order to access the Internet?

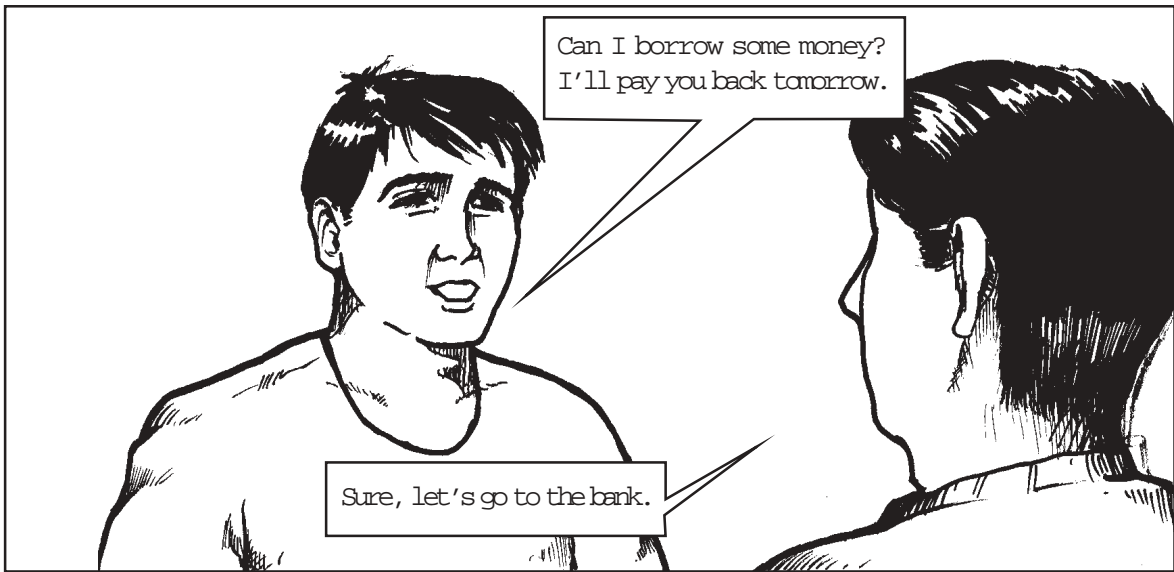
These days, most computers being sold in the market have modems and appropriate computer programs that can enable you to use the Internet. All you have to do is connect your computer to your phone.

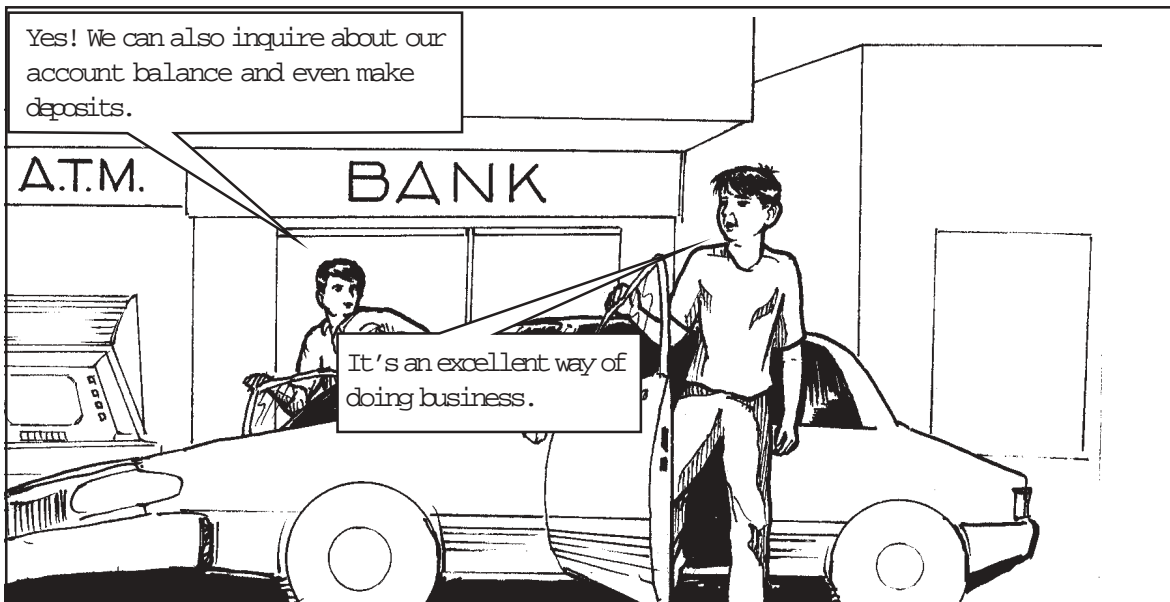
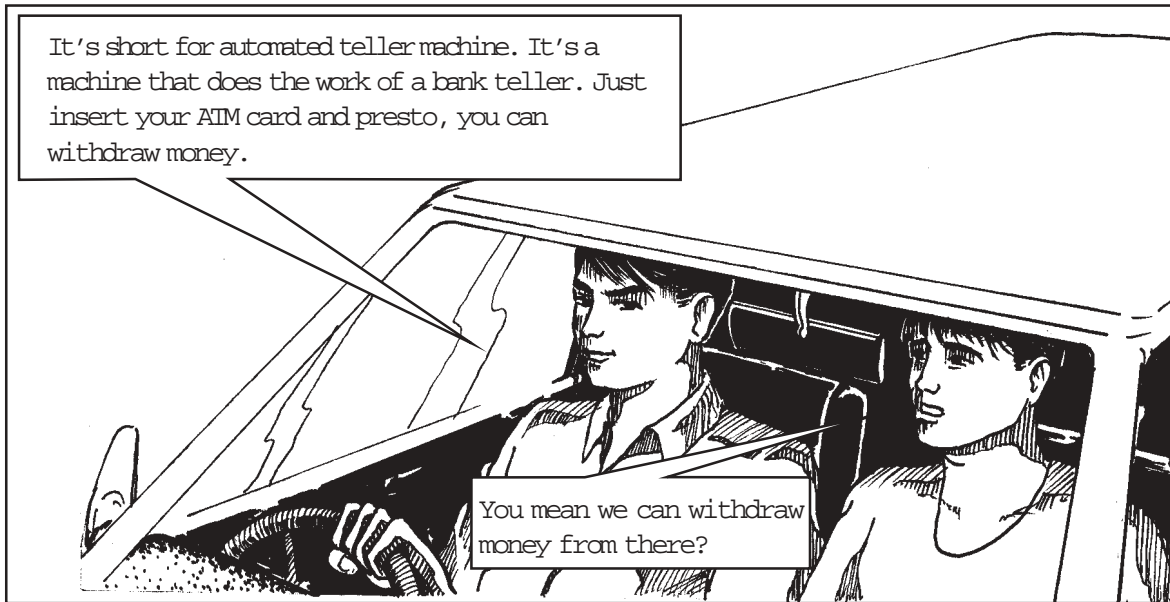
The following are the parts of the computer you need to be able to access the Internet.

- ◆ **Modem** — an electronic device that allows computers to communicate with each other using a telephone line.
- ◆ **Communications software or program** — manages the transmission of data between computers



## Let's Study and Analyze





Most employees at present have ATM cards issued by their companies. They use these to claim their salaries during payday. What are the advantages of having an ATM card with you always? Write down your answers below.

---

---

---

---

---

---

---

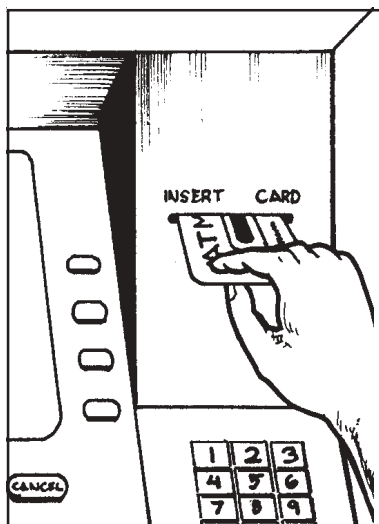
---

The following are some of the advantages of having an ATM card. See if your answers are right.

- ◆ You can withdraw money anytime, anywhere.
- ◆ You can ask how much money you have left in the bank.
- ◆ You can deposit money.
- ◆ You can pay your bills here.
- ◆ You do not have to worry that you might lose all your money.
- ◆ Some department stores, especially the big ones, allow goods to be paid for using your ATM.
- ◆ You can use it as an identification card when the need arises.
- ◆ You can use it anytime as long as the ATM is on-line.

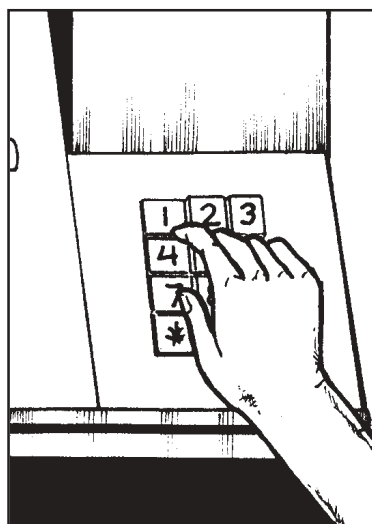
The following are the basic steps in using an ATM card.

Step 1



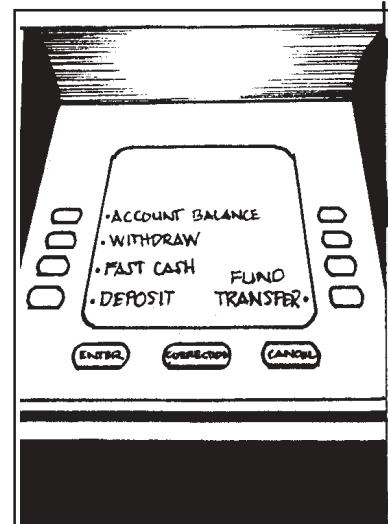
Insert your ATM card as indicated in the picture above.

Step 2



Key in your PIN number. It is usually four digits. Then press enter.

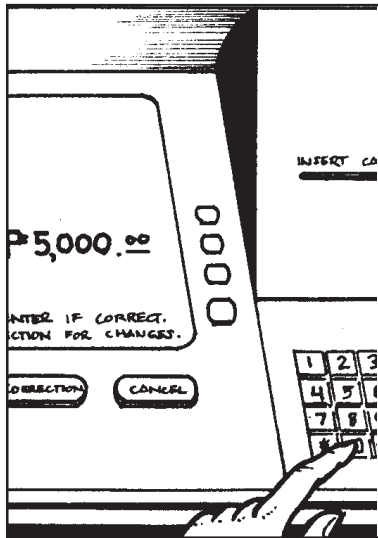
Step 3



Select what type of transaction you're going to make.

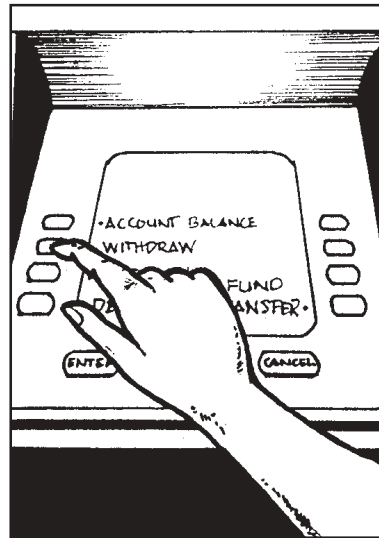
Privacy is very important in making a transaction using the ATM. Don't come too close to a person currently using the ATM.

Step 4



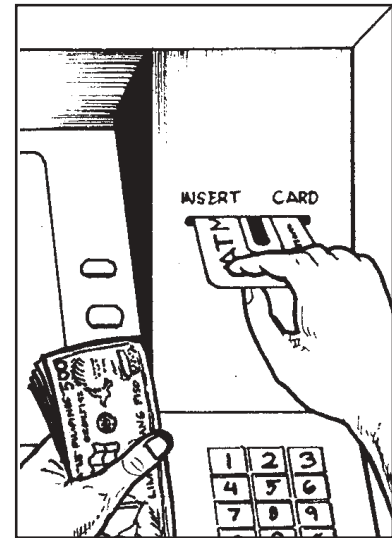
If you choose to withdraw money, type in your account type: savings or checking.

Step 5



Type in the amount you wish to withdraw.

Step 6



Get your card and money. Don't forget your transaction slip.



## Let's See What You Have Learned

1. Have you ever had a hard time using your ATM?

---



---



---



---

2. Do you think ATMs are very useful? Why/Why not?

---



---



---



---

3. What are the advantages of using an ATM over making transactions with the help of a bank teller?

---



---



---



---

Compare your answers with those in the *Answer Key* on page 54. How well did you do?





## Let's Remember

- ◆ **Telecommunication** refers to the transmission of information over long distances by sending out signals.
- ◆ A **telefax/fax machine/ facsimile transmitter** is a device that scans and translates a copy into signals for wire transmission.
- ◆ An **answering machine** has a built-in recorder that records the messages of your callers when you're not around.
- ◆ A **videophone** has a built-in camera that helps you see the person you are talking to and not just hear him/her.
- ◆ The **Internet** is an international network connecting smaller networks in more than 200 countries.

Well, this is the end of the module! Congratulations for finishing it. Did you like it? Did you learn anything useful from it? A summary of its main points is given below to help you remember them better.



## Let's Sum Up

- ◆ Technology refers to the body of tools, machines, materials, techniques and processes used to produce goods and services and satisfy human needs.
- ◆ The following are some of the most common technological products at present.
  - electric fan
  - washing machine
  - gas range
  - electric stove
  - floor polisher
  - personal computer
  - coffee maker
  - pressure cooker
  - rice cooker
  - microwave oven
  - blender/osterizer
  - turbo broiler
  - electric flat iron
  - television set
  - stereo

- DVD player
- Play station
- ◆ Technology indeed helps us make our work easier. Because of this, our lives become more comfortable.
- ◆ Always remember the following tips when using products of modern technology.
  - All electrical appliances have sensitive parts that must not get wet.
  - We use two kinds of voltages here in the Philippines, 110 V and 220 V depending on what part of the country you are in. Imported appliances also require different voltages. So, check every appliance's voltage requirement first before using it.
  - Many appliances have parts that can be easily broken if not handled properly. Be careful when you use them.
  - Keep your electrical appliances away from dusty places. Clean them regularly.
  - Electrical appliances come with manuals when bought. Don't forget to read the manual before using the appliance. Don't assume too much.
- ◆ Telecommunication refers to the transmission of information over long distances by sending out signals.
- ◆ A telefax/fax machine/facsimile transmitter is a device that scans and translates a copy into signals for wire transmission.
- ◆ An answering machine has a built-in recorder that records the messages of your callers when you're not around.
- ◆ A videophone has a built-in camera that makes you see the person you are talking to and not just hear him/her.
- ◆ The Internet is an international network connecting smaller networks in more than 200 countries.



## What Have You Learned?

A. Which of the following can help you in your everyday life? Check (4) them all.

- |                     |                |
|---------------------|----------------|
| ___ washing machine | ___ telephone  |
| ___ microwave oven  | ___ computer   |
| ___ electric fan    | ___ generator  |
| ___ floor polisher  | ___ radio      |
| ___ rice cooker     | ___ television |

II. Identify what kind of technology can help you in the following situations.

1. You want to talk with your cousin in Europe but calling him/her is too expensive. \_\_\_\_\_
2. Calling someone using a cellphone is very expensive. What is a cheaper alternative to this? \_\_\_\_\_
3. You want to know if it's going to rain before applying fertilizer on your rice fields. \_\_\_\_\_
4. You need to withdraw money but you are out of town.  
\_\_\_\_\_
5. You want to maximize your time, list down the household appliances you want to have.

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

Compare your answers with those in the *Answer Key* on page 54.



## Answer Key

### A. Let's See What You Already Know (pages 2–3)

- A. Check the following numbers: 2, 3, 6, 7 and 10
- B. 1. refrigerator  
2. cellphone  
3. cable T.V.  
4. Internet  
5. microwave oven
- C. 1. telephone — It makes communication easier.  
2. television — It is a medium for information and entertainment.  
3. computer — It makes the processing of data faster and easier and the storage of large databases possible.  
4. cellphone — It provides a very personalized way of communication.  
5. gas stove — It makes cooking easier and faster.

### B. Lesson 1

#### *Let's Try This (page 4)*

(This is a sample answer. Your answer may be similar to this. Consult your IS or Facilitator for feedback.)

The products of technology in my home are T.V., telephone, gas stove and stereo. I believe that technology makes our life comfortable, our work easier and faster and the means of communication faster.

#### *Let's Think About This (page 5)*

1. bulb, watch, airplane
2. satellite, space rocket, space shuttle
3. shredder, generator, car engines
4. steam engine, bullet train, cellphone
5. ATM, personal computer, calculator
6. factory
7. calculator, telephone, CD player

(You may have other answers for this activity. Just consult your Instructional Manager or Facilitator for feedback.)

*Let's Think About This (page 7)*

The answers to this may vary. Just consult your Instructional Manager or Facilitator if you are not sure if they are right.

*Let's Review (pages 9–11)*

- A.
1. electric stove
  2. electric fan
  3. floor polisher
  4. washing machine
  5. e-mail
  6. coffee maker
  7. computer
  8. pressure cooker
- B. Inventions are results of man's need to make things that will make work easier and faster. They are very helpful to us.

*Let's See What You Have Learned (page 19)*

1. blender/osterizer
2. microwave oven
3. washing machine
4. video disk
5. gas range

**C. Lesson 2**

*Let's Think About This (pages 26–29)*

- handle them carefully
- do not wet electrical parts
- read the appliance's accompanying manual
- do not overuse electrical appliances

*Situation A*

- (c) — time and effort because she was able to finish two chores in a shorter time

*Situation B*

- (b) — saved him from incoming danger because he would have been caught in the storm at sea and that would have been dangerous for him

### *Situation C*

(d) — This appliance is primarily used to store raw food

### *Let's See What You Have Learned (pages 30–31)*

Technology can help make work and life easier. It will give you more time to do other things. Even if these products cost you, they will be more beneficial to you in the long run.

(The answers to this activity may vary. Just consult your Instructional Manager or Facilitator if you are not sure of them.)

## **D. Lesson 3**

### *Let's See What You Have Learned (page 48)*

1. Some of the difficulties you may encounter are:
  - a. Your card may get captured by the machine. This happens if you enter your PIN incorrectly for three consecutive times.
  - b. Sometimes ATMs can be off-line or not available for transaction.
  - c. During pay days, the lines at ATMs may be too long.
2. ATMs are useful because:
  - a. you can withdraw money immediately.
  - b. you can also use your ATM card as a form of identification.
3. Using ATMs are advantageous because:
  - a. they are available anytime and in conveniently designated places.
  - b. they can save your time and effort in going to the bank.

## **E. What Have You Learned (page 51)**

- A. Your answers may vary according to your needs but each one of the given machines can be very helpful to us.
- B.
  1. Internet
  2. texting
  3. T.V. or radio
  4. ATM
  5. Your answer will depend on what work you usually do.



## Glossary

- Answering machine** A machine that receives telephone calls by playing a recorded message and usually by recording messages from callers.
- ATM** The acronym for an automated teller machine, a computerized electronic machine that performs basic banking functions (as handling check deposits or issuing cash withdrawals).
- Blender** An electric appliance for mixing or grinding.
- Cellphone** A portable telephone for use in a cellular radio system.
- Communication software** The entire set of programs, procedures and related documentation associated with a communication system and especially a computer system.
- DVD** The acronym for digital video disc.
- Electric iron** A household device usually with a flat metal base that is heated to smooth, finish or press (as cloth).
- Facsimile** A system of transmitting and reproducing graphic matter (as printing or still pictures) by means of signals sent over telephone lines.
- Gas range** A gas-powered stove used in cooking food.
- Internet** An electronic communications network that connects computer networks and organizational computer facilities around the world.
- Microwave oven** An oven in which food is cooked by the heat produced by the absorption of microwave energy by water molecules in the food.
- Modem** A device that converts signals produced by one type of device (as a computer) to a form compatible with another (as a telephone)
- Pressure cooker** An airtight utensil for quick cooking or preserving of foods by means of superheated steam under pressure.
- Radio wave** An electromagnetic wave with radio frequency.
- Rice cooker** An electric appliance used to cook rice.
- Stereo** An electric device used to transmit and receive sound.
- Technology** The body of tools, machines, materials, techniques and processes used to produce goods and services and satisfy human needs.
- Telecommunication** Communication at a distance (as by telephone).
- Telegram** A telegraphic dispatch.
- Telephone** An instrument for reproducing sounds at a distance.

**Television set** An electronic system of transmitting transient images of fixed or moving objects together with sound over a wire or through space by apparatus that converts light and sound into electrical waves and reconverts them into visible light rays and audible sound.

**Turbo broiler** An electric appliance used for roasting chicken faster than when one uses coals.

**Videoke set** A set of electric appliances used primarily for entertainment purposes, composed of a television set, a videocassette player and tapes and one or more microphones.

**Videophone** A telephone equipped for transmission of video as well as audio signals so that users can see each other.

**Voltage** Electric potential or potential difference expressed in volts.

**Washing machine** A machine for washing.





## References

*Chapter 1: Technological Innovation and Consumer Products.*

<http://www.susx.ac.uk/Users/ssfd2/Chapter1.html#Introduction>. January 19, 2001, date accessed.

Cogin, Philip (1980) *Technology and Man*. New York: A. Wheaton & Company Limited.

Dunn, P.D. (1978) *Appropriate Technology, Technology with a human face*. New York: Macmillan Press.

<http://www.hbs.edu/dor/abstracts/9798/98-013.html>. January 19, 2001, date accessed.

<http://polaris.umuc.edu/~rclark2/social.htm>

<http://www.bbc.co.uk/education/archieve/wheel/dot.htm>

<http://www.ceiss.org/randa/making/content/chap2pa.htm>

[http://www.emagazine.com/may-june\\_1996/0596conversations.html](http://www.emagazine.com/may-june_1996/0596conversations.html)

<http://www.fcae.nova.edu/wwwboard/fcae/techtrain/messages/424.html>

[http://www.findarticles.com/cf\\_0/mofwe/n3\\_v2/20855344/print.jhtml](http://www.findarticles.com/cf_0/mofwe/n3_v2/20855344/print.jhtml)

[http://www.findarticles.com/cf\\_0/m0999/7220\\_319/57943208/print.jhtml](http://www.findarticles.com/cf_0/m0999/7220_319/57943208/print.jhtml)

[http://www.forbes.com/asap/120296/html/jeremy\\_rifkin.htm](http://www.forbes.com/asap/120296/html/jeremy_rifkin.htm)

<http://www.pbs.org/wgbh/amex/telephone/sfeature/index.html>

Mesthene, Emmanuel (1970) *Technological Change, Its Impact on Man and Society*. London: New American Library.

Mick, David Glen and Susan Fournier. *Garden of Paradise or Paradox Coping With Technological Consumer Products in Everyday Life*. (1998). HBS Division of Research: Working Papers 1997-1998.

Technological Products. <http://www.stemnet.nf.ca/DeptEd/g7/products.htm>. January 19, 2001, date accessed.

Toffler, Alvin (1970) *Future Shock*. New York: Random House Publishing.

*Traditional Land Mobile Radio Systems*. [http://tap.gallaudet.edu/Hatfield\\_b.htm](http://tap.gallaudet.edu/Hatfield_b.htm). January 19, 2001, date accessed.