

What Is This Module About?

Breathing is very important and natural to man. Every breath means life. Do you know what system of the body helps us breathe? What elements in air does man need to live? What diseases result from breathing harmful substances in the air?

In this module, you will learn about the respiratory system—the system of the body that enables us to breathe. You will learn about the different parts that compose it. You will also learn about the diseases that affect this very important system of the body.

This module is divided into two lessons:

Lesson 1 – *How We Breathe*

Lesson 2 – Common Diseases of the Respiratory System



What Will You Learn From This Module?

After studying this module, you should be able to:

- identify the parts of the respiratory system;
- describe how the respiratory system works;
- identify the common diseases that affect the respiratory system;
- give the symptoms and causes of respiratory diseases;
- tell how to treat common respiratory diseases; and
- discuss ways of taking care of the respiratory system.



Let's See What You Already Know

Before you start studying this module, take the following test to see what you already know about the topics discussed in it.

Study the fo	ollowing statements. Write the le	tter of the answer on the blank before the number of the statement.				
1.	What system of the body enables us to breathe?					
	a. circulatory systemb. digestive system	c. respiratory systemd. muscular system				
2.	What element in the air is important for life?					
	a. oxygenb. dust	c. carbon dioxided. smoke				
3.	When you have a cold, the be	st thing to do is to				
	a. drink lots of water and haveb. go to work, never mind thec. take a cold bathd. play in the open field					
4.	What are the symptoms of ton	sillitis?				
	b. difficulty in breathing, pai	inny nose and muscle pains inful swallowing, heavy colds and sore throat ing and shortness of breath inful chest muscles				

- _____ 5. Which of the following is NOT a proper way of taking care of the respiratory system?
 - a. Smoke as often as you can.
 - b. Always breathe fresh air.
 - c. Exercise regularly.
 - d. Eat healthy foods.

Well, how was it? Do you think you fared well? Compare your answers with those in the *Answer Key* on page 33 to find out.

If all your answers are correct, very good! This shows that you already know much about the topic. 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 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 now go to the next page to begin Lesson 1.

LESSON 1

How We Breathe

Breathing or respiration is the process of inhaling and exhaling air. Why is it important in maintaining life? Which system of the body makes breathing or respiration possible? What are its parts? What is the function of each part?

In this lesson, you will learn about the respiratory system and its parts. You will also learn how important this system is in maintaining life.

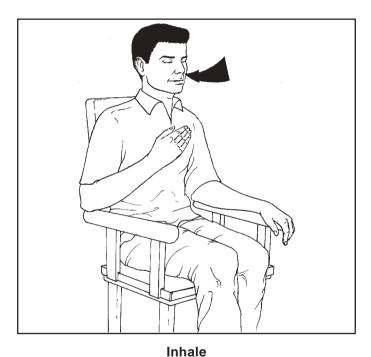
After studying this lesson, you should be able to:

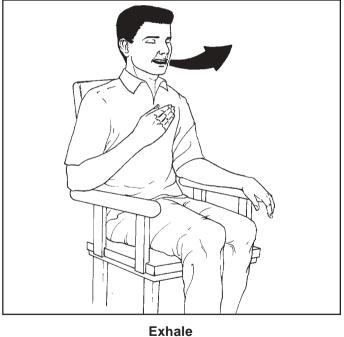
- identify the parts of the respiratory system;
- give the function of each part of the respiratory system; and
- describe how the respiratory system works.



Breathing or respiration involves inhaling and exhaling air. Inhaling means taking in air usually through the nose. Exhaling means releasing air. To understand this better, let's study the way you breathe. Do the following exercise.

Find a quiet place. Sit in a relaxed position, with your back straight and your eyes closed. Put your right hand on your chest. Take three long, slow, deep breaths. Inhale through your nose and exhale through your mouth. Exhale twice as slow as you inhale.





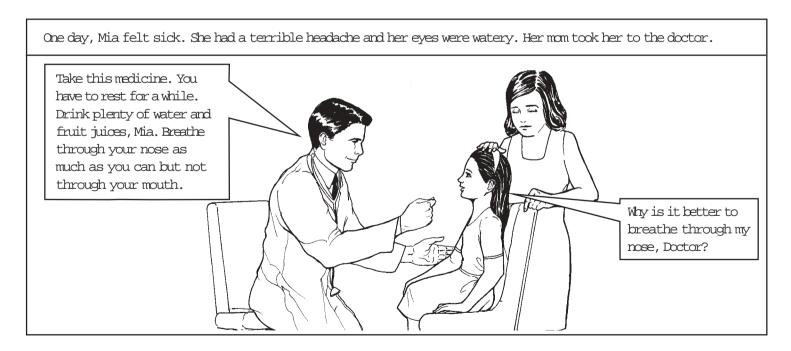
Did you notice the movements of certain parts of your body? Did you notice your chest rise and fall? Did you notice how air went into your nose? Did you notice how air left your body through your mouth?

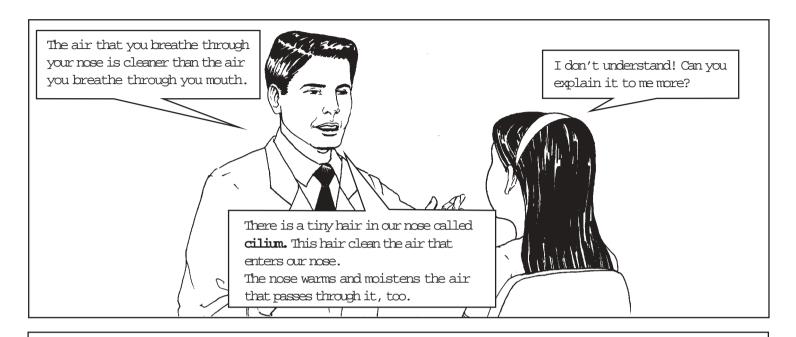
The nose and mouth are some of the parts of the respiratory system. Your respiratory system is composed of organs that are involved in the intake and exchange of gases between you and your environment.

Read on and learn more about the respiratory system.



Study the following comic strips and learn more about how the respiratory system works.



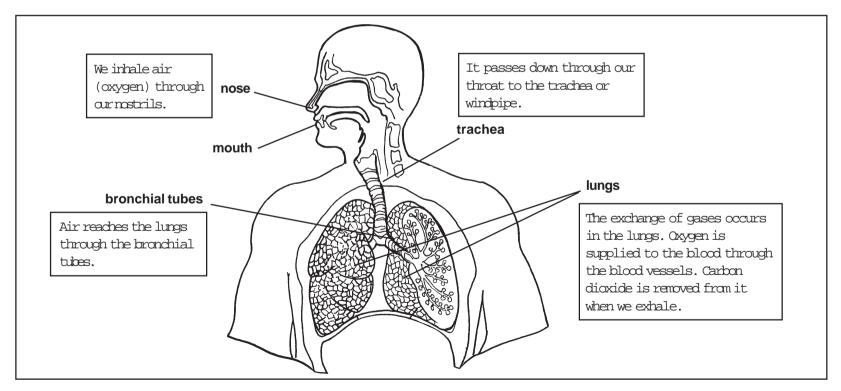


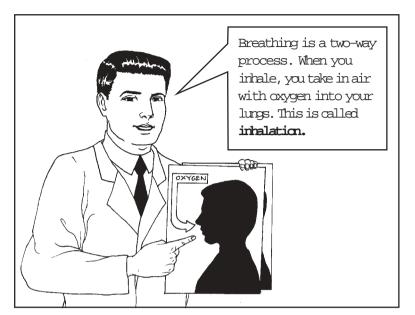
Mia was amazed at what the doctor said. She asked more questions about what happens when people breathe.

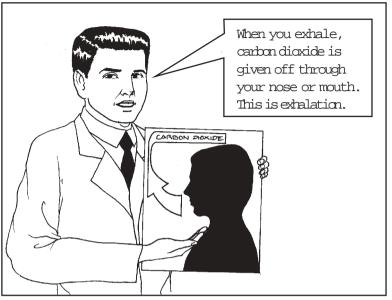


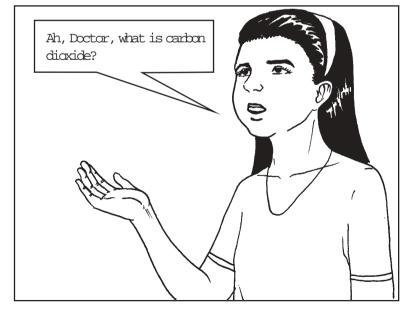


The respiratory system consists of the nose, the trachea (windpipe) and a pair of lungs. It is the system that sustains human life. The respiratory system has two main functions. First, it provides the body with oxygen. Second, it removes carbon dioxide from the body. It is important that the body is supplied with oxygen. The body cells need oxygen, so that they can release energy from the food we eat. The body must also get rid of carbon dioxide because this is waste.



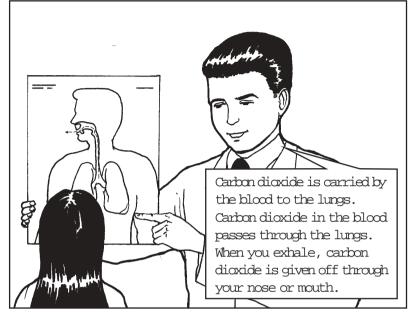


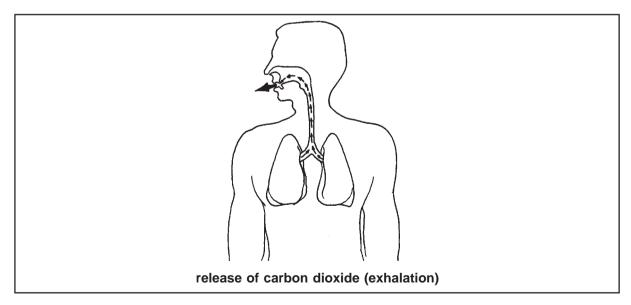














Fill in the blanks with the word that best complete each statement. Choose your answer form the list of words inside the box below.

		oxygen	inhale		Cilium
			exhale	Carbon dioxide	
1.	When we _		_, we take in air thro	ugh our nostrils.	
2.	Carbon dio	xide is removed	from our body when	n we	
3.	The tiny ha	ir that protects o	ur nose from dust an	nd dirt is called	·
4.	The respira	tory system prov	vides the body with		
5.	The waste r	naterial produced	d when food combin	es with oxygen in the body	's cells is
Co	Compare your answers with those in the <i>Answer Key</i> on page 34.				



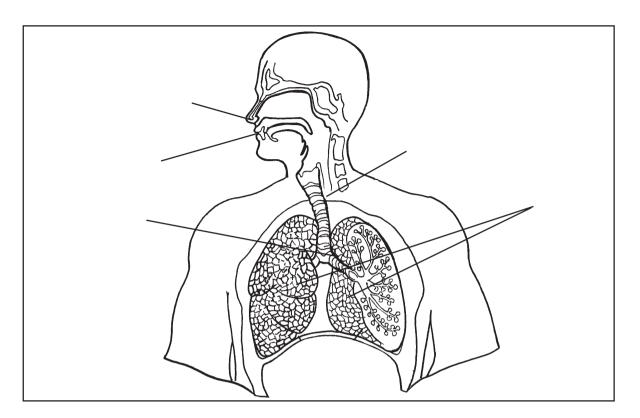
In this lesson, you learned that:

- The **respiratory system** consists of the nose, the trachea (windpipe) and a pair of lungs. It makes the intake and exchange of gases between a living thing and its environment possible.
- **Breathing** is a two-way process:
 - You **inhale** or take in air, ideally through your nose.
 - You exhalale or release air through your mouth.
 - Breathing involves inhalation and exhalation
- Exchange of gases occurs in the lungs.
 - Through inhalation, oxygen is supplied to the blood through the blood vessels. It is needed to release energy from the food you eat.
 - Through exhalation, **carbon dioxide** is removed from the blood. It is a waste material of the body that is produced when food combines with oxygen.



Let's See What You Have Learned

A.		Match each statement in Column A with what it describes in Column B. Write the letter of the answer on the blank before the number.							
		1.	It is the system responsible for body.	=			3	a. b.	carbon dioxide
		2.	It is a two-way exhalation.	process that	involves inhal	ation and		c.	respiratory system
		3.	It is the elemen cells to release			-		d. e.	oxygen oxygen
		4.	It is the waste poxygen in the b		nen food comb	ines with			
		5.	It is the tiny had dust from the a	-	cts the nose fro	om dirt and			
В.	Label to below.	_	arts of the respira	atory systen	n in the illustra	tion on the nex	xt page. Choose y	our/	answer from the list
			nose		lung		trachea		
				mouth		bronchial tu	lbe		



C. The following are the different processes that occur in the respiratory system. Arrange them in the proper order. Write 1 for the process that occurs first, 2 for the second one, and so on. Write your answer in the blank before the statement.

 Air reaches the lungs through the bronchial tubes.
 Carbon dioxide is exhaled through the mouth.
 Air passes through the throat to the trachea or windpipe.

____ Air enters the nose and is cleaned by the cilia.

____ Exchange of gases occurs.

Compare your answers with those in the *Answer Key* on pages 34–35.

Well, how was it? Did you get all the right answers? If you did, very good! If not, you may read the lesson again and try to understand it better.

Lesson 2

Common Diseases of the Respiratory System

Have you ever had a cough or a cold? How did you feel? Which parts of your respiratory system were severely affected? How were you treated?

In this lesson, you will learn about the common diseases that affect the respiratory system. You will learn about their symptoms and the ways they can be treated.

After studying this lesson, you should be able to:

- identify the common diseases that affect the respiratory system;
- give the symptoms and causes of respiratory diseases;
- tell how to treat common respiratory diseases; and
- discuss ways of taking care of the respiratory system.



You have learned about the respiratory system and its importance to the body. Now, let's find out what common diseases affect the respiratory system. Before we start, answer the following questions.

1.	Have you had a cough or a cold? How did you feel?
2	
۷.	How were you treated?

To find out if your ideas are correct, read on! In the discussion, you will learn more about coughs, colds and other respiratory diseases.

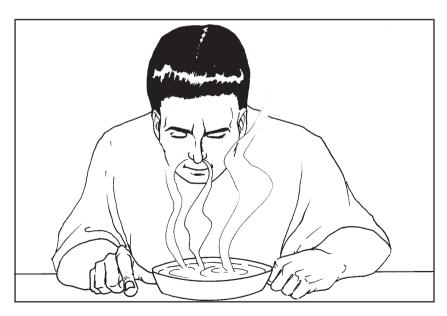


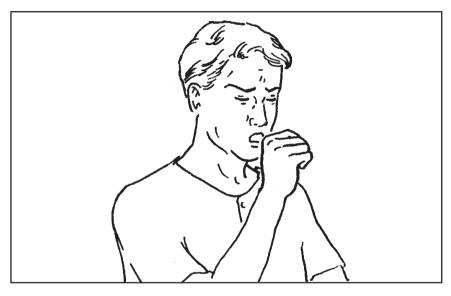
Coughs

Coughing is the body's way of removing mucus and dust from the lungs. **Mucus** is a substance produced to protect and moisten the inner walls of the body.

Coughing occurs when the trachea or windpipe is irritated by something. Its symptoms are an itchy or sore throat and painful chest muscles. Mucus and phlegm may be coughed out.

Coughing is usually caused by an infection of the airway and the chest. Viruses or bacteria may cause such infection.





Inhaling steam is one way of easing coughs. You may take lozenges that are available in drugstores. Take warm drinks. Try a teaspoon each of honey and lemon dissolved in warm water to soothe your throat. Consult your doctor. He/She will give you a cough medicine that will suit you. Drink plenty of water and take a long rest.

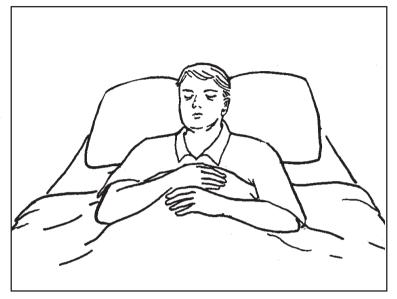
Common Colds

The *common cold* is the most widespread infectious disease among humans. This means that this disease is the easiest to spread.

Colds are almost always caused by viruses. The viruses are spread through sneezing. You can catch a cold by using the personal things of a person who has a cold. Colds occur most frequently during rainy days.

The symptoms of colds are mild fever, clogged nose, sneezing, watery eyes, runny nose, cough, sore throat and muscle pains.

There is no proven treatment or antibiotic for colds. An **antibiotic** is a substance that can destroy or stop the growth of viruses and bacteria. It is used to prevent and treat infectious diseases like colds.



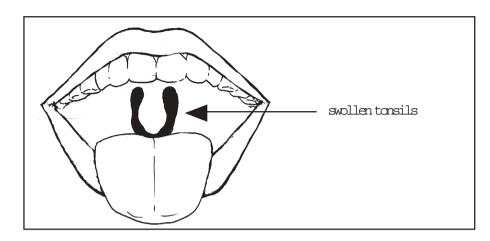
The best treatment for colds is to stay at home and have plenty of rest. Drink plenty of fluids like water and fruit juices. Make sure the people in your home are protected from the spread of the virus.

Tonsillitis

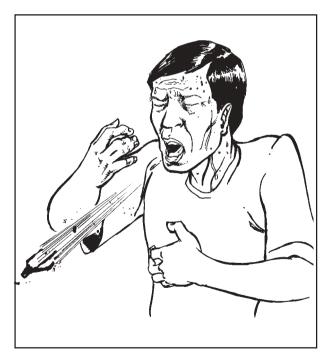
Tonsils are small lumps of flesh located on each side of the throat. They become infected when viruses are inhaled through the nose or mouth. This happens when we have colds. The tonsils become swollen. This condition is known as *tonsillitis*.

The symptoms of tonsillitis are difficulty in breathing, painful swallowing, a serious cold and a sore throat.

There are antibiotics that help prevent further swelling of the tonsils and making them worse.



Tuberculosis (TB)



Tuberculosis (TB) is a contagious or infectious disease. It is a deadly disease when not properly and immediately treated. You can be infected with tuberculosis by breathing in bacteria called *tubercle bacilli*. These bacteria are spread through the cough of a person suffering from the disease. Other causes of tuberculosis are crowded living conditions, poor diet and unclean habits.

The symptoms of TB are cough, slight fever and chest pains. In severe cases, there is also chronic cough, blood in the sputum, difficulty in breathing and loss of appetite and weight.

Women with TB experience severe menstruation. Both men and women suffer from weight loss and heavy sweating during night time.

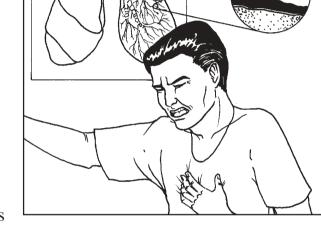
In treating tuberculosis, doctors usually prescribe antibiotics for six months. The patient also needs to eat healthy foods and have plenty of bed rest.

Asthma

Asthma blocks the airways and makes them swollen. Breathing then becomes difficult. It appears mostly in childhood. However, it can also appear for the first time in adults. Many children out grow asthma as they get older.

The symptoms of asthma are wheezing or difficult breathing, coughing, choking and shortness of breath. In severe cases, the patient turns blue as if near death. This happens when the small tubes of the lungs are clogged.

Many things cause asthma. It can be caused by an allergic reaction to certain objects. These may be dust, smoke, animal hair and certain food or medicines. Asthma can also be caused by over-exercise (doing too much and too quickly), emotional upset, changes in weather and colds or flu.



When one has asthma, he or she is usually given antibiotics. However, it is advisable for him/her to consult a doctor. Materials or objects that cause asthma should be avoided.



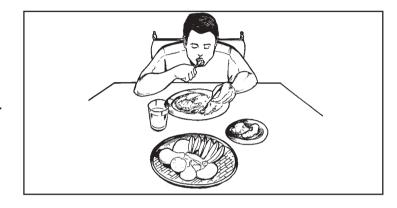
Identify the respiratory disease referred to in each statement. Choose your answer from the list in the box. Then, write it on the space provided before each number.

	;	asthma	common cold	cough	
		tonsillitis	tuber	culosis	
	1.		e trachea or windpipe us and dust from the lu	is irritated by something.	It is the body's way
	2.	You can be infect	ed with this disease by	breathing in bacteria call	ed tubercle bacilli.
	3.	The enlargement or mouth.	or swelling of the tons	ils caused by viruses inhal	ed through the nose
	4.	It is a condition in becomes difficult	•	e swollen and blocked, so	that breathing
	5.		lespread disease among often during rainy day	g humans. It is almost alw /s.	ays caused by
Compare your answe	ers with th	ose in the Answer	Key on page 36.		



You have learned about the common diseases that affect the respiratory system. How do we avoid these diseases? Here are some tips to keep our respiratory system healthy.

Eat healthy foods. Eat the right kinds of food in the right amount and your body will be healthy and strong. It will help you fight diseases.

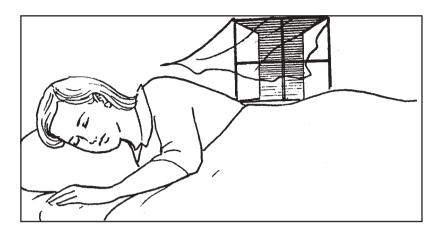




Exercise regularly. Exercise will strengthen your lungs. It helps oxygen flow in your body.

Always breathe in fresh air. This lessens the possibility of inhaling disease-causing germs. Clean air has oxygen that is important to the body.

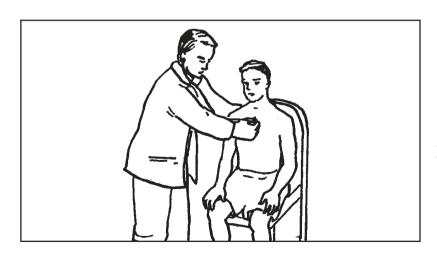


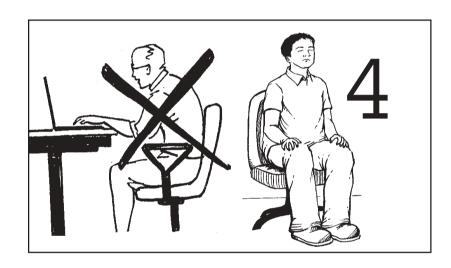


Get the proper amount of sleep. You will need eight hours of sleep a day.

When you sleep, make sure that your room receives enough fresh air. This ensures that you will not lack fresh air to breathe.

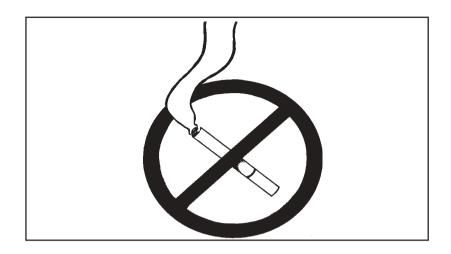
Sit, walk and stand straight or erect. This will prevent crowding or squeezing your lungs.





Have a physical examination once a year or as often as necessary. The doctor will give you advice on how to keep your body strong and healthy.

Do not smoke. Smoking is one of the primary causes of respiratory problems. It clogs the lungs and causes the airway to swell. It severely weakens the respiratory system.





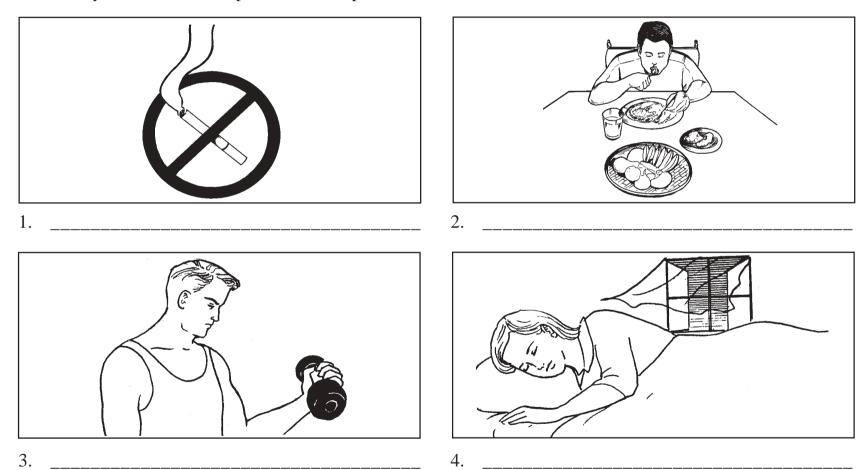
Avoid pollution. Black smoke and other poisonous gases are harmful to the respiratory system, especially the lungs.

What other health tips do you know? Write them in the space below.

Show your answers to your Instructional Manager for comments.



The following pictures show proper ways of caring for the respiratory system. Identify the health tip shown in each picture. Write you answer in the space below the picture.



Compare your answers with those in the *Answer Key* on page 36.



In this lesson, you learned the following:

- There are common diseases that affect the respiratory system:
 - **Coughing** occurs when the trachea or windpipe is irritated by something.
 - The common cold is the most widespread infectious respiratory disease. It is almost always caused by viruses.
 - **Tonsillitis** involves swelling of the tonsils.
 - Asthma is a condition in which breathing becomes difficult because the airways are swollen and blocked.
 - Tuberculosis is a contagious or infectious disease caused by breathing in bacteria called tubercle bacillus.
- Practice proper health habits to prevent respiratory illnesses and diseases.
 - Always eat healthy foods.
 - Exercise regularly.
 - Get at least 8 hours of sleep every day.
 - Always breathe fresh air. Do not expose yourself to pollution. Do not smoke.
 - Have a regular physical check-up.



Let's See What You Have Learned

A.	Match the following diseases in Column A with their symptoms in Column B. Write the letter in the blank before the number.					
	1.	wheezing or difficult breath and shortness of breath	ning, coughing, choking	a. b.	tuberculosis tonsillitis	
	2.	in severe cases: slight fever cough, blood in the sputum and loss of appetite	•	c. d.	cough	
	3.	difficulty in breathing, pain serious cold and a sore thr		e.	asthma	
	4.	itchy or sore throat and pai	inful chest muscles			
	5. mild fever, clogged nose, sneezing, watery eyes, runny nose, cough, sore throat and muscle pains					
B.	Complete the table below. Give the causes and treatment of the following respiratory illnesses and diseases.					
		Illness/Disease	Cause(s)		Treatment	
	1. Asthr	ma				

	IIIness/Disease	Cause(s)	Treatment
2.	Cold		
3.	Cough		

If you find it difficult to complete the table, go back to pages 16-24

- C. Study the following statements. Put a check (4) on the blank before the number of the statement that shows proper care of the respiratory system.
 - _____ 1. Exercise regularly.
 - ____ 2. Smoke as often as you can.
 - _____ 3. Eat balanced meals.
 - _____ 4. Get the proper amount of sleep.
 - _____ 5. Expose yourself to pollution.

Compare your answers with those in the *Answer Key* on pages 37–38.

Well, how was it? Did you get all the right answers? If you did, very good! If not, you may read the lesson again and try to understand it better.



In this module, you learned that:

- ♦ The **respiratory system** helps you to breathe. It help you to inhale and exhale air. This involves the intake and exchange of gases between you and your environment.
- Exchange of gases occurs in your lungs:
 - Oxygen is supplied to your blood through your blood vessels when you inhale. It is needed to release energy from the food you eat.
 - Carbon dioxide is removed from the blood when you exhale. It is a waste material of the body that is produced when food combines with oxygen.
- ♦ The common diseases that affect the respiratory system are asthma, colds, cough, tonsillitis and tuberculosis.
- To avoid respiratory diseases, practice good health habits.



What Have You Learned?

Choose the	correct answer for each question below. Write its letter on the blank before the number of the statement.
1.	What does the respiratory system do?
	 a. to digest food b. to provide the body with oxygen c. to remove wastes d. to support the body
2.	It is a two-way process that involves taking in and releasing air.
	a. breathingb. inhalationc. exhalationd. smoking
3.	What gas is released when you exhale?
	a. oxygenb. smokec. dustd. carbon dioxide

 4.	Where does the exchange of gases take place?			
	a. lungsb. mouthc. nosed. trachea			
 5.	What is the tiny hair that protects the nose from dirt and dust from the air?			
	 a. trachea b. tonsil c. cilium d. bronchial tube 			
 6.	How does the body remove excess mucus and dust from the lungs?			
	 a. through inhaling b. through coughing c. through smoking d. through exhaling 			
 7.	What are the symptoms of a cold?			
	 a. cough, slight fever and chest pains, blood in the sputum, difficulty in breathing and loss of appetite b. difficulty in breathing, painful swallowing, a serious cold and a sore throat c. wheezing or difficult breathing, coughing, choking and shortness of breath d. mild fever, clogged nose, sneezing, watery eyes, runny nose, cough, sore throat and muscle pains 			

8.	What is the condition in which breathing becomes difficult because the airways are swollen and blocked?
	 a. asthma b. cough c. cold d. tuberculosis
9.	What is the proper treatment for tonsillitis?
	 a. inhaling steam b. taking antibiotics c. drinking water d. avoiding materials that cause allergy
10.	Which of the following is NOT a way of proper caring of your respiratory system?
	 a. Exercise regularly. b. Eat healthy foods c. Smoke often. d. Get the proper amount of sleep.

Well, how did you do? Compare your answers with those in the *Answer Key* on pages 38–39.

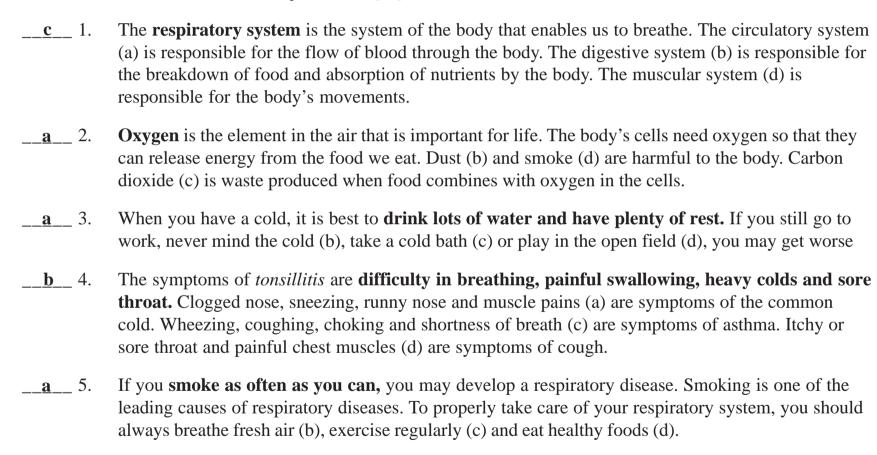
If the number of correct answers you got is:

- 10 Very good! You have learned a lot from this module.
- 8-9 Good! Just go back and review the items that you answered incorrectly.
- 0-7 You have to review the whole module again.

You may now proceed to the next module.



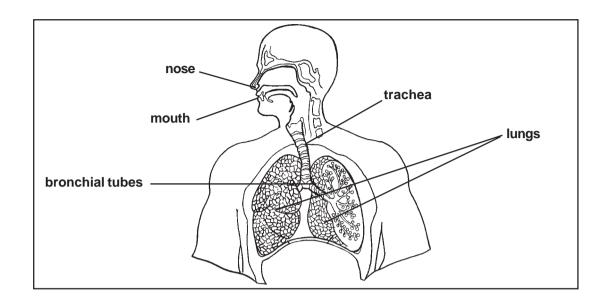
A. Let's See What You Already Know (pages 2–3)



B. Lesson 1

Let's Review (page 11) When we **inhale**, we take in air through our nostrils. Carbon dioxide is given off from our body when we **exhale**. The is tiny hair that protects our nose from dust and dirt is called **cilium**. The respiratory system provides the body with **oxygen**. The waste material produced when food combines with oxygen in the body's cells is carbon dioxide. Let's See What You Have Learned (pages 13–14) A. <u>c</u> 1. The **respiratory system** is the system of the body that sustains human life. It is responsible for the intake and exchange of gases in the body. **Breathing** is a two-way process that involves inhalation and exhalation. **Oxygen** is the element in the air that is needed by the body's cells to release energy from food we eat. **Carbon dioxide** is the waste produced when food combines with oxygen in the body's cells. **Cilium** is the tiny hair that protects the nose from dirt and dust from the air.

B.



- C. _3_ Air reaches the lungs through the **bronchial tubes.**
 - **__5**__ **Carbon dioxide** is exhaled through the mouth.
 - _____ Air passes through the throat to the **trachea** or windpipe.
 - __1__ Air enters the nose and is cleaned by the **cilia.**
 - **_4** Exchange of gases occurs.

C. Lesson 2

 Let's Try This (page 21)

 cough
 1. It occurs when the trachea or windpipe is irritated by something. It is the body's way of removing mucus and dust from the lungs.

 tuberculosis
 2. You can be infected with this disease by breathing in bacteria called tubercle bacilli.

 Tonsillitis
 3. The enlargement or swelling of the tonsils caused by viruses inhaled through the nose or mouth.

 Asthma
 4. It is a condition in which the airways are swollen and blocked, so that breathing becomes difficult.

 Common cold
 5. It is the most widespread disease among humans. It is almost always caused by viruses. It occurs often during rainy days.

Let's Try This (page 25)

- 1. Don't smoke.
- 2. Eat healthy foods.
- 3. Get the proper amount of sleep.
- 4. Exercise regularly.

Let's See What You Have Learned (pages 27–28)

A. _e _ 1. Wheezing or difficult breathing, coughing, choking and shortness of breath are symptoms of asthma.
_a _ 2. Slight fever, chest pains, chronic cough, blood in the sputum, difficulty in breathing and loss of appetite are symptoms of tuberculosis in severe cases.
_b _ 3. Difficulty in breathing, painful swallowing, a serious cold and a sore throat are symptoms of tonsillitis.
_c _ 4. Itchy or sore throat and painful chest muscles are symptoms of cough.
_d _ 5. Mild fever, clogged nose, sneezing, watery eyes, runny nose, cough, sore throat and muscle pains are symptoms of a cold.

B.

IIIness/Disease	Cause(s)	Treatment	
1. Asthma	 allergic reaction to certain objects over-exercise emotional upset changes in the weather colds or flu 	 take antibiotics avoid materials or objects that cause asthma consult a doctor 	
2. Cold	 viruses spread through sneezing and using personal things of a person with a cold 	 stay at home and have a good rest drink plenty of fluids, like water and fruit juices 	

IIIness/Disease	Cause(s)	Treatment
3. Cough	an infection of the airway and chest caused by viruses or bacteria	 inhale steam take lozenges take warm drinks have a good rest consult a doctor about a cough medicine

C.	<u>4</u> 1.	Exercise regularly.
	2.	Smoke as often as you can.
	<u>4</u> 3.	Eat balanced meals.
	4 4.	Get the proper amount of sleep.
	5.	Expose yourself to pollution.

D. What Have You Learned? (pages 30–32)

- __b__ 1. The function of the respiratory system is **to provide the body with oxygen.** Digesting food (a) is the function of the digestive system. Removing wastes (c) is the function of the excretory system. Supporting the body (d) is the function of the skeletal system.
- **a** 2. **Breathing** is a two-way process that involves taking in and releasing air. Inhalation (b) and exhalation (c) are the two specific processes in breathing. Smoking (d) is not a process that is involved in respiration.

Carbon dioxide is the gas released during exhalation. Oxygen (a) is the gas taken in during inhalation. Smoke (b) and dust (c) are harmful substances that should not enter the respiratory system. **a** 4. The exchange of gases takes place in the **lungs**. **Cilium** is the tiny hair that protects the nose from dirt and dust from the air. **b** 6. The body removes excess mucus and dust from the lungs **through coughing.** d 7. The symptoms of a cold are mild fever, clogged nose, sneezing, watery eyes, runny nose, cough, sore throat and muscle pains. Cough, slight fever and chest pains, blood in the sputum, difficulty in breathing and loss of appetite (a) are symptoms of tuberculosis. Difficulty in breathing, painful swallowing, a serious cold and a sore throat (b) are symptoms of tonsillitis. Wheezing or difficult breathing, coughing, choking and shortness of breath (c) are symptoms of asthma. a 8. **Asthma** is the condition in which breathing becomes difficult because the airways are swollen and blocked. A cough (a) occurs when the trachea is irritated by something. It is the body's way of removing mucus and dust from the lungs. A cold (c) is the most widespread disease among humans. It is almost always caused by viruses and occurs often during rainy days. Tuberculosis (d) is caused by bacteria called tubercle bacilli. The proper treatment for tonsillitis is **taking antibiotics**. An antibiotic is a substance that can destroy or stop the growth of viruses and bacteria. It can help prevent further swelling of the tonsils and making it worse. **Smoking often** is not a way of properly taking care of your respiratory system. To maintain a healthy respiratory system, you should exercise regularly (a), eat healthy foods (b) and get the proper amount of sleep (d).



Antibiotic A substance that can destroy or stop the growth of viruses and bacteria. It is used to prevent and treat infectious diseases, like colds

Asthma A respiratory illness that causes the airways to become swollen and blocked, so that breathing becomes difficult

Bronchial tube Either of the two main branches of the trachea or windpipe that opens into the lungs

Carbon dioxide The waste produced when food combines with oxygen in the body's cells

Cilium The tiny hair that protects the nose from dirt and dust from the air

Cold A condition caused by a virus, which is characterized by the swelling of the walls of the upper parts of the respiratory system

Cough The body's way of removing mucus and dust from the lungs. It occurs when the trachea or windpipe is irritated by something

Oxygen The element in air that is needed by the body's cells to release energy from food that is eaten

Tonsils A small mass of tissue located on the walls at the back of the mouth

Tonsillitis The enlargement or swelling of the tonsils caused by viruses inhaled through the nose or mouth

Trachea A thin-walled tube that starts from the throat and carries air into the lungs; windpipe

Tuberculosis A contagious disease that is caused by breathing in bacteria called *tubercle bacillus*



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