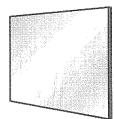
Section 5.2

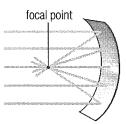
Use with textbook pages 182-186.

Mirrors

Examine these diagrams. Then fill in the chart.



convex mirror



concave mirror

plane mirror On the first line, identify whether the mirror is plane, convex, or concave. On the second and third lines, briefly explain how the mirror is used to see images.

1. full-length bedroom mirror		6. jeweller's mirre	or
	plane mirror -see yourseif		Concave -enlarges Small lewellery
2. make-up mirror		7. car side-view	mirror
	Concave mirror - enlarges your - face !	ran	- Widens area For anner to see
3. car rear-view mirror		8. mirror in flashlight	
	Convex Minror - increases the Geld of view		-widens light projection area
4. dental mirror		9. shaving mirro	r
	Concal mimor -enlarges -esth		-enlarges your
5. store security mirror		10. surface of a la	ake (1)
	Convex increases field of new		- Can see your Reflection

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Use with textbook pages 182-186.

Flat mirrors and curved mirrors

Complete the following table describing the three different types of mirrors.

	Plane Mirror	Concave Mirror (object near to mirror)	Concave Mirror (object far from mirror)	Convex Mirror
Is the reflecting surface of the mirror flat, curved inward, or curved outward?	flat	curred	curved	curved outward
Is the image smaller, larger, or the same size as the object?	Saml Size	Larger	Smaller	smaller
Is the image upright or upside down?	upinght	upinght	upside	upignt
Is the image the same shape as the object?	Same	different	different	different
Does the image seem to be behind the mirror or in front of the mirror?	behind	behind	in Front	behind
Draw and label one example of how this type of mirror might be used.	St. Mimor wall.	ex make up	ex. Planlight	ex security mimor

Use with textbook pages 182-186.

Mirror, mirror, on the wall

Vocabulary		
behind concave mirror converging convex mirror diverging focal point		images in front plane mirror reflect upright upside down
Use the terms in th You will not need to	•	ill in the blanks. Use each term only once.
1. All mirrors	reflect	light.
2. There are three to		ee types reflect light rays to form
produces an ima		is a mirror that is flat and smooth. It the object and appears to be the same
The image forme	avl mirror avl poin	is a mirror that curves inward. r depends on how far away the object is from
<u> </u>	erging	point are described as
6. If the object is fa	r from the concave mir	ror, its image is small and Winde down
7. If the object is cluthe object and is 8. A	ose to a concave mirro VPMGNT X MIMOR	or, then the image appears to be larger than
9. Light rays that sp	oread apart after reflect	ting are described as

Use with textbook pages 182-189.

Using mirrors to form images

Match each Term on the left with the best Descriptor on the right. Each Descriptor may be used only once.

Term	Descriptor
1. A diverging 2. B converging 3. E plane mirror 4.	 A. spreading apart B. coming together C. curves inwards D. curves outwards E. is smooth and flat F. point where light rays meet

Circle the letter of the best answer.

- **6.** Which of the following is used to make an image that is the same size as the object?
 - A. plane mirror
 - B. convex mirror
 - **C.** concave mirror
 - **D.** both concave and convex mirrors
- **7.** What do all three types of mirrors have in common?
 - **A.** they all produce upside down images
 - (B.) they all reflect light rays to form an image
 - **C.** they all reflect light rays so that the rays diverge and do not meet
 - **D.** they all reflect light rays so that the rays converge on a focal point

- **8.** What type of image would you expect to see if you looked at yourself in the bowl of a spoon?
 - A. an upright, larger image of yourself
 - B. an upright, smaller image of yourself
 - **C.** an upside down, larger image of yourself
- **D.** an upside down, smaller image of yourself
- **9.** Which of the following mirrors can produce an upright image?

I.	plane mirror
II.	convex mirror
Ш.	concave mirror

- A. I and II only
- B. I and III only
- C. II and III only
- (D.)I, II, and III
- **10.** Which of the following mirrors can be used to make you look taller?
 - A. plane mirror
 - B. convex mirror
 - (C) concave mirror
 - **D.** both convex and concave mirrors
- **11.** Which of the following statements is **incorrect** about a plane mirror?
 - **A.** It reverses left and right.
 - **B.** It produces an image in front of the mirror.
 - **C.** It produces an image that is the same size as the object.
 - **D.** It produces an image that appears to be the same distance from the mirror as the object.