Α,	me				
٠,				-	
**	NΙ	Λ	м	<u>_</u>	

ATE \_\_\_\_\_ CLASS

6	9

## STUDY GUIDE

Chapter 20

## The Optics of Mirrors

Text Pages 512-517

Use the terms in the list below to fill in the blanks in the paragraphs about mirrors.

reversed	smooth	eyes	concave	focal	smaller
reflect	behind	ray	convex	optical	upside down
virtual	plane	length	real	spread	upright
Mirrors	can be formed by	almost any		surfac	ce. Flat mirrors
made from g	glass with a reflec	tive coating on th	e back surface are	called	
mirrors. To	see your face in a	a mirror, light ha	s to		off your face.
This light go	es to the mirror	and is reflected to	oward your		The
image you sε	ee will be	•	from left	t to right. To exp	lain this requires
the use of a		<del> </del>	model. The image	will appear to co	ome from
		the mirror. S	Since there is noth	ning behind the r	nirror, this image is
called a		imaį	ge.	· .	
Mirrors t	that have a curve	like the bowl of a	spoon are called		mir-
rors. A straig	tht line going thr	ough the center of	of a mirror is calle	d the	
axis. Beams	of light parallel to	o this axis will stri	ke a concave mirr	or and be reflect	ed to pass through
a point on th	ne optical axis cal	led the		point. Th	e distance from the
center of the	e mirror to the fo	cal point is called	l the focal		. When a
concave mir	ror is used to refl	ect light from an	object that is plac	ed farther from	the mirror than the
focal point, t	the image formed	l will be a	WE-11-2	imag	e. The image will
be enlarged	and		If the object i	is placed betweer	ı the focal point
and the mirr	or, an image is so	een that is enlarg	ed in size,		, and
seems to be		the	e mirror. Because	the image appea	urs to be behind the
mirror, it ca	nnot be projected	d onto a screen li	ke a real image an	d is therefore cal	lled
a		image.			
A type of	f mirror like the l	oack of a spoon is	called a	· · · · · · · · · · · · · · · · · · ·	mirror.
The rays tha	t are reflected fro	om this mirror are	e always		out. When
			nd the mirror and		/ to
hut		than the	original object.		- 14

What is you're your height in centimeters?
In order that you are able to see a full length view of yourself the minimum size for a plane mirror must be
cm

1 1 23 C