

THE MOON

Name _____

Date _____

Per _____ page _____

OBJECTIVE: _____

RESEARCH:

moon: _____

light seen on the moon: _____

phases of the moon: _____

waxing: _____

waning: _____

crescent: _____

gibbous: _____

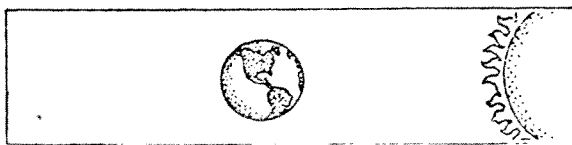
lunar eclipse: _____

solar eclipse: _____

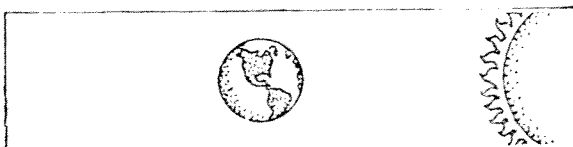
ACTIVITIES:

- I. SOLAR AND LUNAR ECLIPSES- Use pg 23 in the Earth and Beyond book to help you draw the position of the moon and shade the correct portion for each one.

SOLAR ECLIPSE



LUNAR ECLIPSE



Complete the following chart by checking the correct box for each statement.

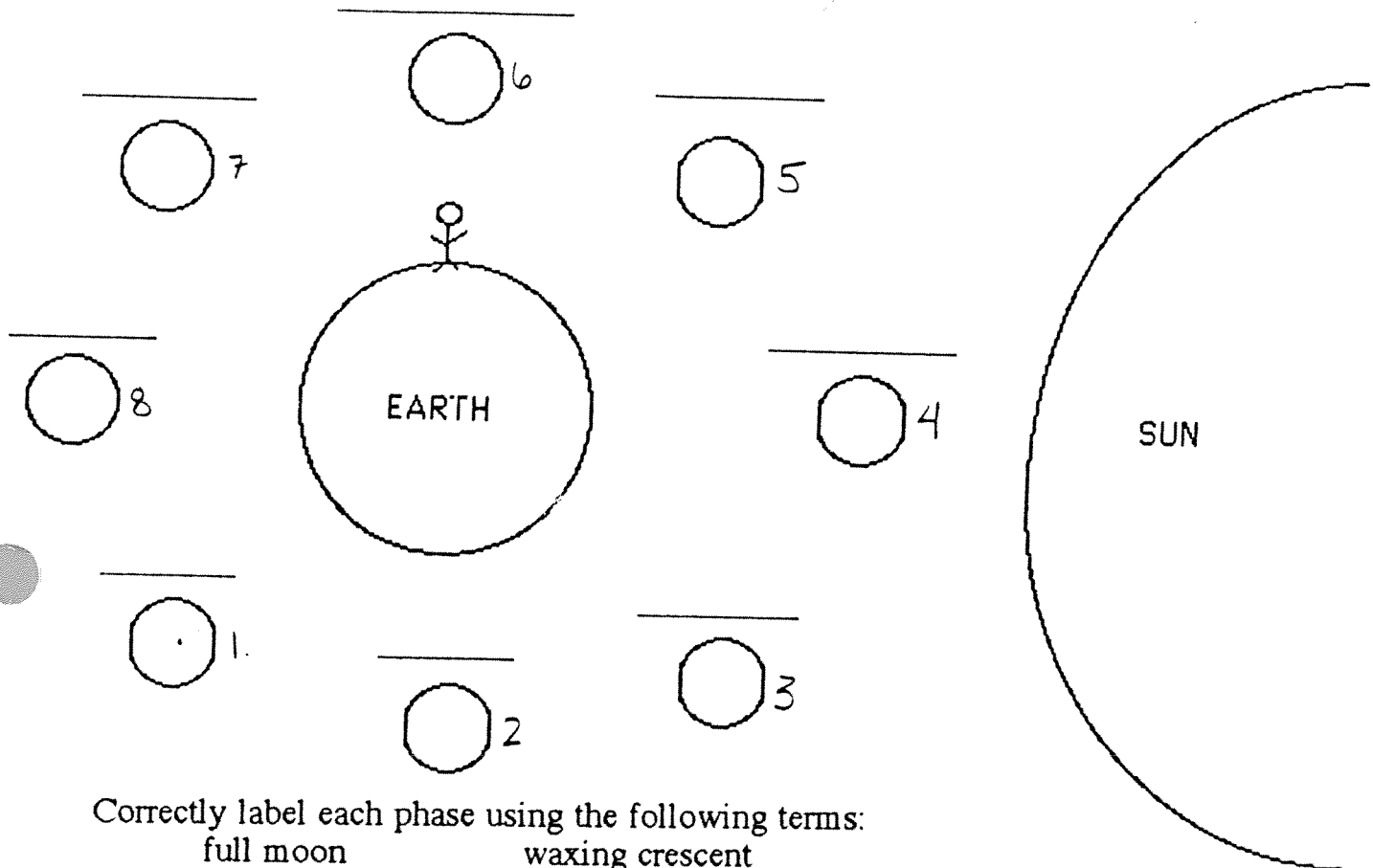
	Lunar Eclipse	Solar Eclipse
earth casts a shadow	<input type="checkbox"/>	<input type="checkbox"/>
moon casts a shadow	<input type="checkbox"/>	<input type="checkbox"/>
takes place at night	<input type="checkbox"/>	<input type="checkbox"/>
takes place during the day	<input type="checkbox"/>	<input type="checkbox"/>
moon is blocked out	<input type="checkbox"/>	<input type="checkbox"/>
sun is blocked out	<input type="checkbox"/>	<input type="checkbox"/>
causes the sky to get dark	<input type="checkbox"/>	<input type="checkbox"/>
causes the air to cool	<input type="checkbox"/>	<input type="checkbox"/>

QUESTIONS:

- What does it mean if something is eclipsed? _____
- Would all the people on earth be able to see a solar eclipse when it occurs? _____
Explain: _____

II. PHASES OF THE MOON

DIRECTIONS: You will use the box with the flashlight and ping-pong ball to do this part. Turn on the flashlight and place it in the "big hole" on the end of the box. Fix the flashlight so it shines directly on the "moon". You need to hold the flashlight. Observe each hole 1-8 and draw what you see (shade the dark part of the drawing and leave the illuminated part white)



Correctly label each phase using the following terms:

full moon	waxing crescent
new moon	waning crescent
first quarter	waxing gibbous
third quarter	waning gibbous

QUESTIONS:

- c. Looking through which of the holes gives you a similar picture of looking at a new moon? _____
- d. What numbers represent a waxing moon _____, _____, _____ and _____