

### The Solar System

Student's Name: \_

\_\_\_\_\_ Assignment: \_\_\_\_\_

Level:

	Level 1	Level 2	Level 3	Level 4
Understanding Concepts	Demonstrates a limited understanding of concepts. Requires teacher intervention.	Demonstrates a basic understanding of the concepts.	Demonstrates a good understanding of the concepts.	Demonstrates a thorough understanding of the concepts.
Response to the Text	Expresses responses to the text with limited effectiveness, inconsistently supported with proof from the text.	Expresses responses to the text with some effective ass, supported way some proof some thatest	ixpresses rescases to the text y sh appropriate skips supported with appropriate proof.	Expresses thorough and complete responses to the text, supported by concise and effective proof from the text.
Analysis & Application of Concepts	Interprets and applies various concrete in the text with few uncheted ils and a corre analys	various contracts in when the work of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the source of the so	Interprets and applies various concepts in the text with appropriate detail and analysis.	Effectively interprets and applies various concepts in the text with consistent, clear, and effective detail and analysis.

S	TR	EN	<b>IG</b>	TH	IS:
3	IN		U		

WEAKNESSES:

3

NEXT STEPS:



The Solar System CCP4512-6

NAME:

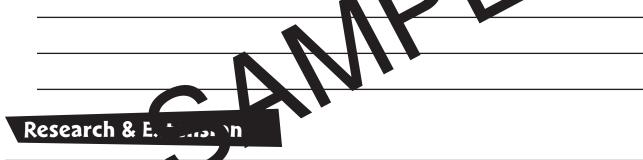
# Constellations

#### Answer each question with a complete sentence.

After You Read 🤛

2. How can someone find the North Star?

- 3. Why would sailors need to use the stars for navigation?
- 4. Whose story about Ursa Major is correct: the creek i on he Native americans'?



## For centuries, people have gazed up at the stars and used their imagination to see pictures and tell stories.

- 5. Research the story of the constellation called **Orion**. Draw a diagram of it, and recount the story as either a comic strip or a poem.
- 6. Create a **Constellation Slideshow Viewer** using a shoebox, black construction paper for constellation slides and a pin to make the holes. Prepare a description for each of your slides.
- 7. Use a slideshow-making computer program to create a slideshow of your **five** favorite constellations. For each one, have a slide to show the constellation and one to tell its story.
- 8. Create your own constellation from existing stars and write a legend to go with it.

© CLASSROOM COMPLETE





Try It!

### SIZE AND DISTANCE OF THE PLANETS

You will use the attached templates to create a scale model of a solar system.

#### Steps

**STEP ONE:** Color and cut out the planets on the sheet provided.

**STEP TWO:** Stand at one end of a hallway, or large space or outdoors. Mark this point as the Sun.

**STEP THREE:** Place the Earth 22.4 inches from the Sun.

**STEP FOUR:** Without looking at the table below purce the test of the planets at the distance you think they are from the sun.

**STEP FIVE:** Check the table to measure the actual distances between the Sun and each of the planets. Hence your openets at the correct distances.

PLANET	D stance to the Sun (m)	Distance to the Sun (in)	Distance to the Sun (ft)
Mercury	35 983 610	8.7	0.7
Venus	67 232 360	16.2	1.3
Earth	92 957 100	22.4	1.9
Mars	141 635 300	34.0	2.8
Jupiter	483 632 000	116.3	9.7
Saturn	888 188 000	213.6	17.8
Uranus	1 783 950 000	429.1	35.8
Neptune	2 798 842 000	673.2	56.1

Note: If you wanted to include a model of the Sun using this scale, it would have to have a diameter of 0.208 inches.



### **Our Planets**

 $\bullet \bullet \bullet \bullet$ 







