

Science Studies Weekly—Challenger (Grade 5)
Teacher Resource Book

Name: _____

Date: _____

Science Studies Weekly: Challenger (5th Grade)

Week 17, 3rd Quarter

Read each question and the answer choices. Fill in the circle that goes with the correct answer.

1 The core, the photosphere, the chromosphere and the corona are all part of the

- Ⓐ Earth
- Ⓑ atmosphere
- Ⓒ sun
- Ⓓ planets

2 Neil Armstrong was the first American astronaut to

- Ⓔ orbit the Earth in a satellite
- Ⓕ see Mars through a telescope
- Ⓖ pilot a space shuttle
- Ⓙ walk on the moon

Use the chart below and what you know to do #3.

Galileo Galilei
Italian mathematician
?
Found mountains and valleys on the moon
Identified new stars
Proved that Jupiter had moons

3 Which of the following would best fit in the chart about Galileo?

- Ⓐ Studied to be a lawyer
- Ⓑ Placed under arrest for writing about his discoveries
- Ⓒ Built the Hubble telescope
- Ⓓ Discovered a new planet

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- 4 Which of the following is not part of our solar system?
- Ⓐ Milky Way galaxy
 - Ⓑ planets
 - Ⓒ moons
 - Ⓓ asteroids
- 5 The four gaseous planets known as the gas giants are Neptune, Saturn, Uranus and
- Ⓐ Earth
 - Ⓑ Mercury
 - Ⓒ Mars
 - Ⓓ Jupiter
- 6 Which science tools fly throughout the solar system, sending pictures and information to Earth about planets, asteroids and comets?
- Ⓐ satellites
 - Ⓑ space shuttles
 - Ⓒ space probes
 - Ⓓ radio transmitters
- 7 Which blue-green planet rotates on its side because of the tilt of its axis?
- Ⓐ Uranus
 - Ⓑ Earth
 - Ⓒ Pluto
 - Ⓓ Saturn

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8. The asteroid belt lies between which two planets?
- Ⓐ Mercury and Venus
 - Ⓑ Mars and Jupiter
 - Ⓒ Jupiter and Saturn
 - Ⓓ Venus and Earth
9. What do scientists believe can be found on Mars that is also found on Earth?
- Ⓐ liquid water
 - Ⓑ only one moon
 - Ⓒ polar ice caps
 - Ⓓ life forms
10. Where in the solar system have scientists discovered the Kuiper Belt, a large group of comets?
- Ⓐ near the sun
 - Ⓑ between Mars and Jupiter
 - Ⓒ between Saturn's rings
 - Ⓓ near the outer edge of the solar system

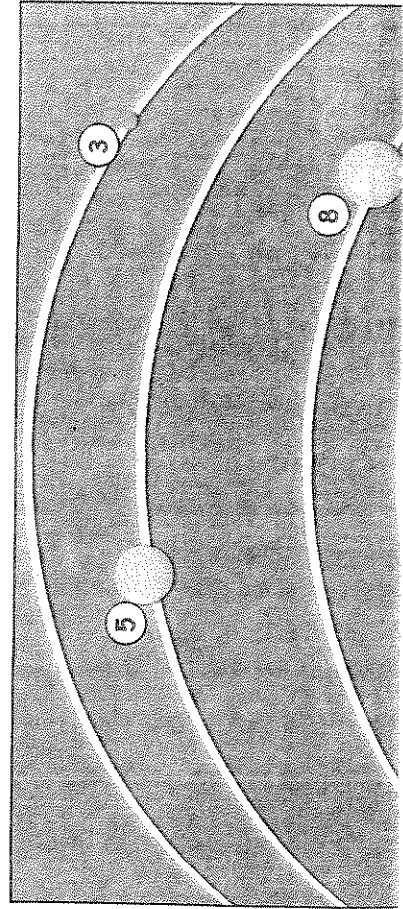
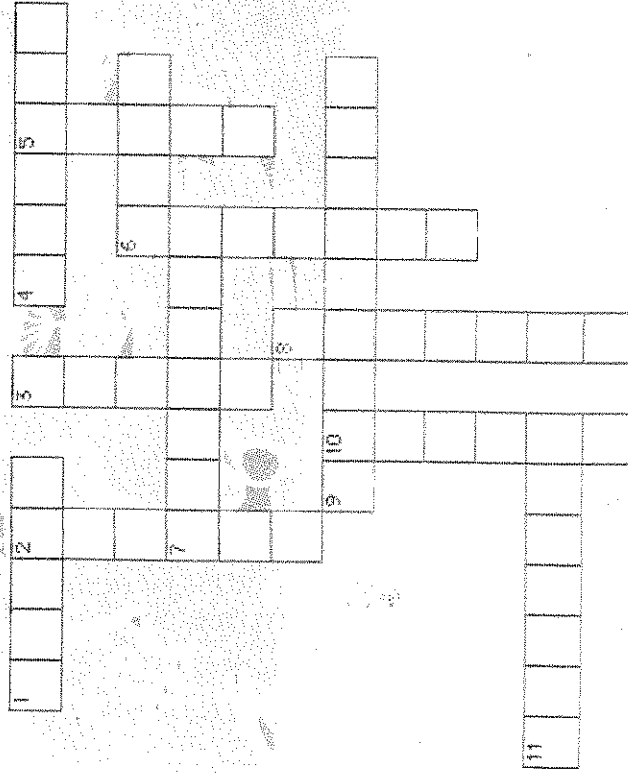
Vocabulary and Word Games

Across

1. same size as the Earth, swirling gases, high temperatures, carbon dioxide atmosphere
4. big chunks of dirt and ice with tails
6. the Red Planet
7. has four rings and 13 moons
9. leftover rocky chunks from formation of the solar system
11. the largest planet

Down

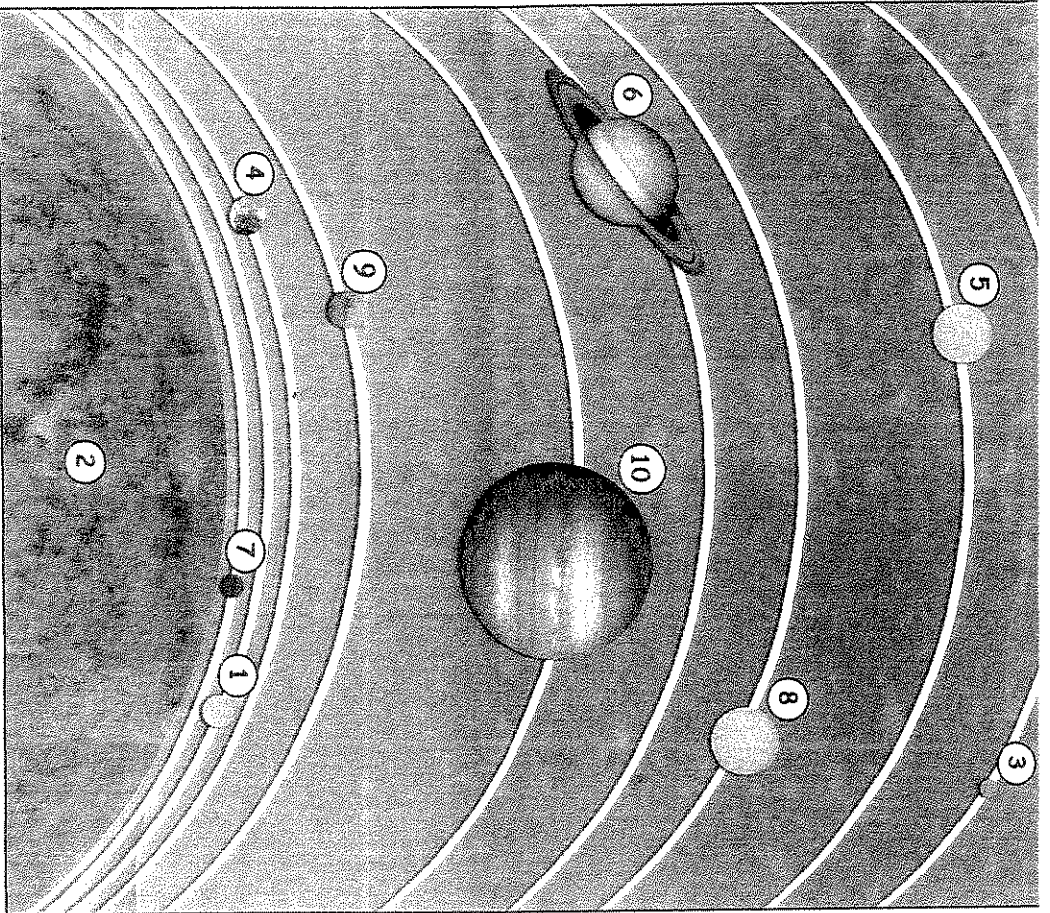
2. blue-green planet with 27 known moons
3. classified as a dwarf planet in 2006
5. where we live
6. pieces of space stuff that hit the Earth's atmosphere and usually burn up before they hit the Earth
8. the planet closest to the sun, small and rocky
10. famous for its giant rings



Label the Objects

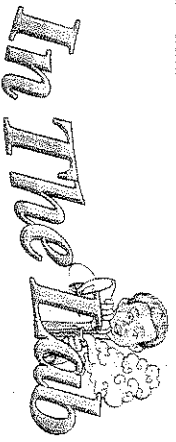
See if you can match the objects in our solar system with their names. If you are stuck, you can refer to the lesson.

1. _____
2. _____



See if you can match the objects in our solar system with their names. If you are stuck, you can refer to the lesson.

- 1 _____
- 2 _____
- 3 _____
- 4 _____
- 5 _____
- 6 _____
- 7 _____
- 8 _____
- 9 _____
- 10 _____



Make a Working Model of the Solar System

Before taking on the whole solar system, first experiment with the above model, using only the sun, Earth, and moon. With this as a basis, you can invent improved ways of putting the other planets in orbit.

Materials

- 24 inches of No. 18 bare copper wire
- 1-inch wooden bead painted yellow (represents the sun)
- 1/2-inch green bead (represents the Earth)

start twisting about 1 inch from the end. This gives you greater leverage. Cut off the excess wire.

