Science Studies Weekly—Challenger (Grade 5)

Teacher Resource Book

Name:	Date: Week 18, 3rd Quarter
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Read each question and the answer choices. Fill in the circle that goes with the correct answer.

- In the movie "Superman Returns," Superman's planet Krypton was destroyed when its old red sun exploded. What do scientists call this?
 - A supernova
 - ® binary stars
 - © a nebula
 - ① a solar flare

Use the chart below and what you know to do #2.

TEM	PERATURE OF STARS
	Red stars
	5,400° F.
	Orange
	7,600° F.
	Yellow
	10,000° F.
	White
	19,000° F.
~··	Blue
	35,000° F.

- 2 Which color star is the Earth's sun?
 - ① orange
 - © yellow
 - ® white
 - ① blue

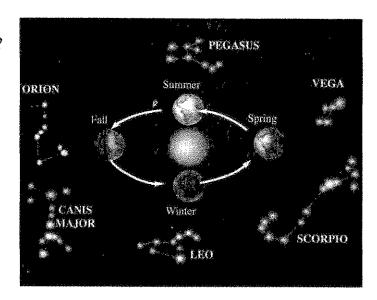
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3	Which of the following does <u>not</u> help determine a star's magnitude, or brightness, as seen from the Earth?
	(A) its size
	how far it is from the Earth
	© its orbit
	① its temperature
	• ·
4	What keeps the stars and solar system in the Milky Way Galaxy moving in a spiral?
	© friction
	© orbits
	(H) rotations
	① gravity
5	Edwin Hubble, the astronomer the Hubble Space Telescope was named for, was originally a
	® doctor
	® lawyer
	© teacher
	® mathematician
6	Which constellation is shaped like a hunter, with a giant bow and belt made of stars?
	© Orion
	© Betelgeuse
	® Cygnus
	① the Southern Cross

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- 7 What causes different constellations to be visible in the sky during different seasons?
 - the Earth's rotation
 - ® the Earth's revolution
 - © the stars' rotation
 - ① the sun's revolution
- 8 Which galaxy is 2.2 million light years away, the closest one to the Milky Way Galaxy?
 - Vega
 - @ Pegasus
 - Andromeda
 - ① Canis Major



- 9 What must a nebula contain for the materials in it to combine and form a new star?
 - @ gravity
 - ® heat
 - © dust
 - (1) clouds
- 10 Most of outer space is taken up by
 - ® stars
 - @ planets
 - ® nebulae
 - ① a vacuum

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Across

- 5. a group of stars that makes a picture in the sky
- 7. When a star's core collapses, a giant explosion happens called a
- 9. large clusters made up of billions of stars and other celestial objects that float around the universe together
- 10. the center of a black hole

COME

- he showed that the universe is expanding and that galaxies are moving away from our own and move faster as they get farther away
- 2. these send energy out into space in pulses, not steadily like young stars
- 3. a star that is close to 10,000°; our sun is this color of star
- 4. Stars that are found in pairs are called
- huge clouds of gas and dust floating in space
- 8. this is the name of the North Star that is on the end of the Little Dipper's handle

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