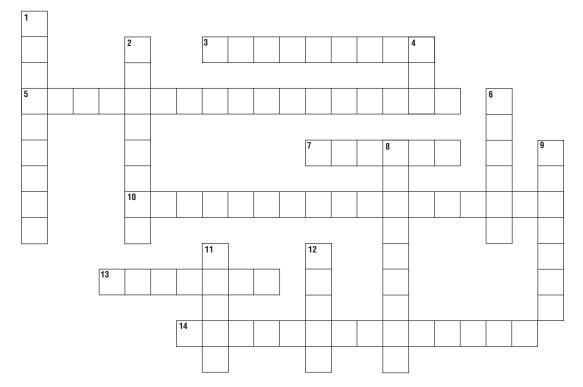
Date



**Directions:** Use the clues provided to solve the crossword puzzle.



## Across

- **3.** The Big Dipper is part of this constellation. (2 words)
- **5.** This is the amount of starlight received on Earth. (2 words)
- 7. Our Sun is a star of this color.
- **10.** This the actual amount of light that a star gives off. (2 words)
- 13. This is another name for the North Star.
- **14.** These are groups of stars that form patterns.

## Down

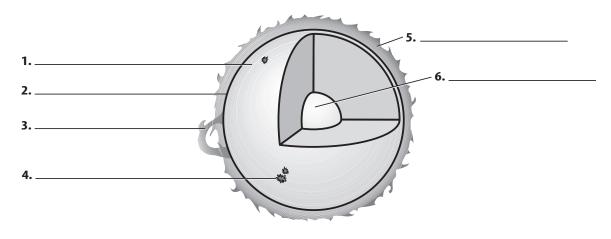
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- 1. The North Star is in this constellation. (2 words)
- **2.** This is the apparent shift in position of an object when viewed from two different places.

- **4.** Relatively cool stars look either orange or this color.
- 6. This is the brightest star in the sky.
- This is the distance of about 9.5 trillion kilometers that light travels in one year. (2 words)
- **9.** Astronomers study these to learn about the properties of stars.
- **11.** This constellation, named after a mythical hunter, includes the star Betelgeuse.
- **12.** Even though this star has an absolute magnitude greater than that of Sirius, it looks dimmer from Earth since it's 100 times farther away.



**Directions:** The diagram shows interior and outer features of the Sun. Write the name of each feature on the lines provided in the diagram.



**Directions**: Answer the questions in complete sentences.

7. How can the Sun be classified?

**Meeting Individual Needs** 

- **8.** How is the energy of the Sun produced?
- 9. How does our Sun differ from most other main sequence stars?
- **10.** How do CMEs (coronal mass ejections) affect Earth?

11. How are sunspots related to prominences and solar flares?

Date



**Directions:** *Circle the term in the puzzle that fits each clue. Then write the term on the line. In the puzzle, the terms read across or down.* 

		Е	Ι	В	L	А	С	Κ	Н	0	L	Е	Ν	S	
		Η	Ν	Е	U	Т	R	0	Ν	S	Т	А	R	Т	
													С		
													0	G	
											D			Ι	
													A		
													E		
											к R		E	ı I	
													A		
													G		
	1. A is a large cloud of dust and gas that becomes a star.														
	2. A graph that shows the relationship between a star's absolute magnitude and temperature														
	an														
<b>3.</b> A s	3. A star that is a has exhausted its supply of hydrogen.														
<b>4.</b> Th	<b>4.</b> The of atoms powers the Sun and other stars.														
5. The temperature and brightness of stars are indicated by their															
6. About 90 percent of the stars, including our Sun, are															
7. A is produced when the outer core of a star explodes after the															
core collapses.															
8. The hottest, brightest stars are and white.															
<b>9.</b> Me	9. Medium hot and bright stars like our Sun are in color.														
<b>10.</b> When a star has no fuel left and its outer layers escape into space, it is a															
<ol> <li>As heavier elements are formed by fusion, a massive star expands into a</li> </ol>															
<ul><li>12. When a collapsed core becomes so dense only neutrons can exist there, a</li></ul>															
	is formed.														
	<b>3.</b> A is so dense that nothing, including light, can escape its gravity field.														
14. Write the remaining letters in the puzzle in the order in which they appear to reveal a famous															
scientist's theory.															



**Directions:** Use the terms below to complete the following sentences.

	Milky Way	one t	rillion	Andromeda				
	Local Group	Steady state theory	galaxy	cluster				
	Doppler shift	Big Bang theory	irregular	spiral				
	elliptical	Clouds of	Magellan	Oscillating model				
1.	The two types of		galaxies	are barred and normal.				
2.	A	is a group of galaxies.						
3.	galaxies have many different shapes and are usually smaller and less common than other types of galaxies.							
4.	<ol> <li>An elliptical galaxy about 2.9 million light-years away is in the constellation of</li> </ol>							
5.	Galaxies shaped like footballs are galaxies.							
6.	. Two irregular galaxies called the orbit the Milky Way.							
7.	A by gravity.	is a l	arge group of stars,	gas, and dust held together				
8.	The is an explanation for the formation of the universe.							
9.	. The solar system in which we live is in the Galaxy.							
10.	. The Milky Way Galaxy may contain							
11.	. The Andromeda Galaxy is a member of the							
12.	The stars and galaxies.	ca	uses changes in the	light coming from distant				
13.	One model of the origin of the universe is the, which proposes that the universe was always as it is now.							
14.	Another model of the origin of the universe is the, which believes that the universe expands and contracts in a regular pattern.							

**Meeting Individual Needs**