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Skills Worksheet

DR 18-1

pgs. 554 - 557

Section: Astronomy: The Original Science

- 1. In what way did people in ancient cultures mark the passage of time?
- 2. What science did the study of the night sky eventually become?

OUR MODERN CALENDAR

Match the correct definition with the correct term. Write the letter in the space provided.

- a. day moon to orbit once around the Earth b. month
- 4. the time required for the Earth to orbit once around the sun
- _____ 5. the time required for the Earth to rotate once on its axis

WHO'S WHO OF EARLY ASTRONOMY

- _____ 6. Most early astronomers thought that the universe consisted of
 - a. the sun and the Earth.
 - b. the sun and the planets.
 - c. the sun, the moon, and the planets.
 - d. the sun, the moon, and the Earth.
 - 7. What was Ptolemy's theory of the universe?
 - a. The Earth was at the center of the universe, and the sun, moon, and other planets revolved around it.
 - b. The sun was at the center of the universe, and the Earth and the other planets revolved around it.
 - c. The sun and the moon revolved around the Earth, but the other planets revolved around the sun.
 - d. The planets revolved around the sun in elliptical orbits.

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8. How long did Ptolemy's Earth-centered theory remain the popul theory for the structure of the universe? a. about 100 years b. about 500 years c. over 1,500 years d. over 5,000 years	ar
 9. Why was Ptolemy's theory of the universe helpful even though incorrect? a. It helped revolutionize astronomy. b. It predicted the motions of the planets better than any other the time. c. It promoted new research in the study of the universe. d. It explained the sun's role in the universe. 	
 a. The Earth was at the center of the universe, and the sun, moor other planets revolved around it. b. The sun was at the center of the universe, and the Earth and the planets revolved around it. c. The sun and moon revolved around Earth, but the other plane revolved around the sun. d. The planets revolved around the sun in elliptical orbits. 	ne other
11. Which astronomer's theory led to major changes in science and society? a. Hubble b. Brahe c. Ptolemy d. Copernicus	
 12. What was Brahe's theory of the universe? a. The Earth was at the center of the universe, and the sun, moon other planets revolved around it. b. The sun was at the center of the universe, and the Earth and the planets revolved around it. c. The sun and moon revolved around Earth, but the other plane revolved around the sun. d. The planets revolved around the sun in elliptical orbits. 	ne other
 13. Why was Brahe's work helpful even though his theory of the un was incorrect? a. He accurately described the planets' orbits. b. He made detailed measurements of the sun. c. He explained the sun's role in the universe. 	iverse

d. He made very precise observations of the planets and stars.

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14.	 What did Kepler believe abou a. The Earth was at the center other planets revolved arou b. The sun was at the center of planets revolved around it. c. The sun and moon revolved revolved around the sun. d. The planets revolved around 	of the universe, and it. If the universe, and it around Earth, but	the Earth and the other the other planets
15.	What laws did Kepler state that a. laws of planetary names b. laws of planetary motion c. laws of solar motion d. laws of gravity	at are still in use too	lay?
17. What f	Who was one of the first scient a. Galileo b. Kepler c. Newton d. Hubble Four discoveries did Galileo malike the Earth and not "wander	ke that showed plar	
	Tike the Earth tha not wanted		
8. What c	lid Newton prove about gravity	·?	
observ	n's laws of motion and gravity ations. For example, what law n's laws?		

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	MODERN ASTRONOMY 20. What were two milestones in the development of modern astronomy?							
21.	What did many astr	onomers believe about gala	xies prior to the 1920s?					
22.		abble prove in 1924?						
22	What haliaf of other	r astronomors did Eduvin III	uhhla's disaayary aanfirm?					
23.	——————————————————————————————————————	r astronomers did Edwin Hu						
24.	What tools do astro	nomers use to study space?						
25.	How are computers	used to study space?						