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NAME:

CLASS:

TOPICS 1-2

ASSESSMENT

Unit 5 - Space Exploration Topics 1–3 Review

BLM 5-7

objective lens
ellipse
altitude
spectral lines
compass
planets
Blue shift
diffracting grating

eyepiece (ocular)
reflectors
frame of reference
constellations
refractor
universal gravitation
altitude-azimuth co-ordinates

Doppler effect
Red shift
astrolabe
resolving power
telescope
azimuth
geocentric

spectroscopy

spectroscope celestial bodies

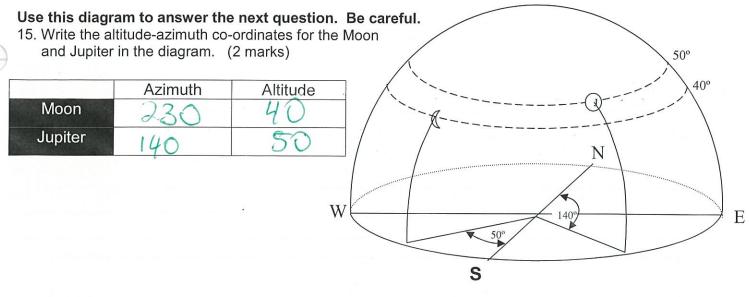
1. To find a star in space, you first find North and rotating yourself until you face the correct direction. This is called your
is a device that is used to see an object that is far away. The lens in which we look through is called the lens. The larger lens at the front is known as the lens. The larger lens is responsible for increasing the amount of detail that can be seen. The fineness of the detail that can be seen is known as the what would the magnification of a telescope be if the focal length of the small-lens was 3cm and the focal length of the large lens was 60cm?
3. The original ideas pertaining to the shape of the universe were based on the Earth being the centre of the universe. This theory was called
4. To understand what a star is made up we study the small black lines found in the sun's spectrum called
5. Looking at the spectrum of a star also told us additional information about the star's direction. Astronomer's notice the when a star was moving towards us, their spectral lines were

MatchingMatch each definition in column A with the correct term in column B.

12. a telescope that uses lens as their objective

A	B /0	
	10	rotation
Kepler's discovery — the shape of planetary orbits.	9	celestial body
7 name siven to a group of store		celestial body
7. name given to a group of stars	8	reflecting
8. telescope with a mirror for an objective		
	10	refracting
9. an object seen in the sky beyond Earth	R	elliptical
40bar a planet turne on ite evie		elliptical
10. when a planet turns on its axis	7	constellations
11. a telescope that used both mirrors and lens		
	1.1	combination

14. How did the ancient	astronomers	know that the pla	nets were	different from	n the stars?	(2 marks)
did not		0		0		

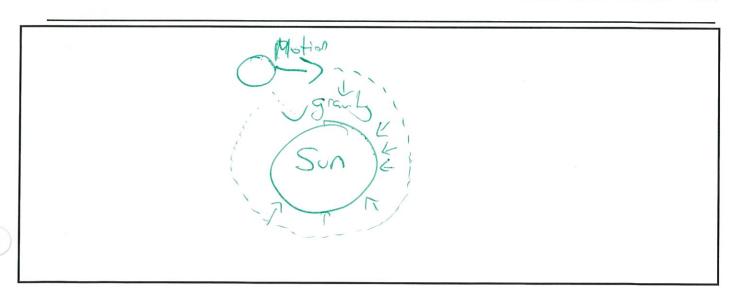


16. What are <u>two</u> methods of evidence that early astronomers used (such as Galileo) to support the idea of a Heliocentric Model? Explain each. Be specific. (4 marks)

Evidence #1	Evidence #2		
Moors orbited	orbits of planets		
Jupiter, not Earth			

17. How did Newton's Laws of Motion help to support the notion of Universal Gravity and the planet's orbits around the sun? Explain in detail what is happening. <u>Use labeled drawings</u> to help support your ideas. (5 marks)

- All things have gravity
- All things travel in straight lines unless there



ha you	t it gives off can be shifted. What is happening to the waves that the star produces? (Look back at a naswer in question 2). Use <u>pictures</u> and <u>labels</u> to help explain what is happening to the light. (4 rks)
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	ble shilled the movement compresses
0	r stretches the wavelengths
7	
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