Name: Ke Space - Topic 1 and 2 Review **Topic 1 Review** 1. What is a Frame of Reference? In what frame of reference does a building seem not to move? 2. Why did the ancient peoples think that the Earth was at the center of the universe? our trame 3. What is an Astrolabe and what function does it perform? This 4. You want to measure the coordinates of a celestial body. The first angle you measure is Next you measure the celestial object's angle above the horizon. What is this angle called? Althur 5. Write the coordinates down of the Moon using the diagram to the right.. Make sure to identify what angle you are using (check question 4). 30 Altitude

6. Describe how the Heliocentric model differs from the Geocentric model. Be specific.

	Thy did Galileo conclude that Jupiter had four moons travelling around it?
8. W	hat observation led Galileo to the conclusion that the Sun rotates? What did he see? e noticed the Sun Spots changing positions
	9. What shape are the orbits of the planets? Ellipses
	Draw out what this looks like.
a.	10. The magnification of an astronomical telescope can be found iding the Objective Focal Length by the Ocular Focal Length. Suppose you have an objective lens with a 120 cm focal length and you want to make a telescope with a power of 60x. What focal length should the ocular lens have? Show your calculations.
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	The two diagrams on the right show a building and its image through a telescope. If the objective lens of the telescope is
b.	25 cm, then what is the focal length of the ever piece?
b.	25 cm, then what is the focal length of the eye piece?

Obj.

frame of reference

celestial bodies

constellations

planets

azimuth

altitude

altitude-azimuth co-ordinates

astrolabe

compass

Earth-centred (or geocentric)

Sun-centred (or heliocentric)

telescope

objective lens

eyepiece (or ocular lens)

receivables becomes

refracting

reflecting

制化结

universal gravitation

Using the words above, fill in the appropriate word for each of the following definitions:

A

- a star's angular height above the horizon
- a model with Earth as a non-moving frame of reference
- the true shape of the planets' orbits
- a device used to measure the altitude of an object
- a model with the Sun as a non-moving frame of reference
- used to measure an object's azimuth
- angles used to specify the co-ordinates of celestial bodies
- a set of axes used to describe the positions or motions of things
- a telescope with a lens for the objective

Altitude

Gocastric

Elliptical Astrolate

Heliocestro

Compass

Alt Az coords

Frage of Rest.

refracting

