Name		

## $\underline{ \ \ \, The\ Solar\ System}\,\,(p.\,690-694)$

## I. Ideas About The Solar System

	1. In an Earth-Centered Model (geocentric), what is at the center of the universe?
	Earth 15 at the center of the
ency	Earth is at the center of the revolving planets and stars
Earth )	2. How did Ptolemy's differ from earlier Greek models? (Not in the book.)
Ja .	- Ptolemy thought the planets moved
Deferent No 010)	on little circles that moved on
Known as cles	> bigger circles (accepted for 1,500 years)
epicy	3. A description of the solar system in which all the planets revolve around the Sun is
	called the: Sun-Centered Model (heliocentric)
	4. Who were two people that helped contribute to the Sun-Centered Model?
	1. Nicholas Copernicus - Sun centered theory 2. Galileo Galilei (Venus + Mars)
	5. Copernicus believed that the Moon revolved around the Earth and
	that the Earth and other planets revolved around the
	6. What were two observations that Galileo made through his telescope that supported the
	Sun-Centered Model? (One answer not in the book.)
	1) Discovered that Venus goes through phases
	Similar to the moon.
	2) He saw four "moons" revolving
	around Jupiter
	7. Define the term solar system.
	solar System - System of "nine" Planets, including
	Solar System System of "nine" planets, including Earth, and other objects revolving
	around the Sun.

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8. What percentage of the solar system does the Sun compose?
9. What force is responsible for holding all solar system objects together?
II. How The Solar System Formed
1. Complete the flowchart showing the sequences of solar system development.
The cloud fragments <u>OATACTED</u> into a large, tightly packed, spinning disk.
Nuclear fusion reactions begin, and the $\frac{\sum un}{}$ was born.
The rest of the material in the disk cools, and Clumped into scattered solids.  Clumps collided and became the "nine" planets.
Clumps collided and became the "nine" planets.
III. Motions Of The Planets  e=0,999 (close to a)
1. Define the term ellipse.  2. Planets closer to the Sun travel slower than planets farther from the Sun.
2. Planets closer to the Sun travel slower than planets farther from the Sun.
Circle One: True False
3. Match the astronomer with the correct accomplishment. (Not all answers in the book.)
- Nicolas Copernicus A. Observed planet positions for 20 yrs; supernova in 1572
- Nicolas Copernicus A. Observed planet positions for 20 yrs; supernova in 1572  - Nicolas Copernicus A. Observed planet positions for 20 yrs; supernova in 1572  - Tyco Brahe  (1546 - 1601)  - Galileo Galilei  C. Discovered orbits of planets are ellipses
3. Salileo Galilei (1664 - 1642) C. Discovered orbits of planets are ellipses - House And
3. B - Galileo Galilei (1664 - 1642)  - Galileo Galilei (1664 - 1642)  - Johannes Kepler  - Johannes Kepler
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