CORNELL NOTES: A Solar System Is Born

From your BLUE textbook, pages 424 - 432, answer the following questions.

p. 424	What is a **Solar System**? What is another name for a Solar System?		
	Explain how **Nebulas** form.		
	How cold are nebulas? What things are formed in nebulas and how does that happen?		
	What force is pulling all of the mass together?		
p. 425	Are the particles in a nebula moving? If so, what allows them to move?		
	Explain how nebulas stay together, (as opposed to drifting apart)		*Draw and label step 3*
	What **factors** can influence the formation of a **Solar Nebula**?		
p. 426 - 427	What happens next to the solar nebula? Explain the process.		
	What are **Planetesimals**?		
	Draw the Steps that lead to the formation of our Solar System.		
p. 428 – 430	When does a solar nebula become a Solar System?		
	The entire process takes _____ million years. How do scientists know how the process occurs?		

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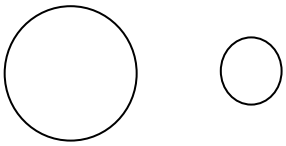
	Explain...How does the motion of Earth cause day and night?		
	Explain the <u>difference</u> between **Orbit**, **Rotation**, and **Period of Revolution**		
	How old are you if you lived on **Mercury**? Solve to the exact number of years and days.		
	Why is the distance between the Earth and the Sun different each day?		
	What is the average distance between the Earth and the Sun? **_____ Unit**	*Explain Kepler's 1st Law of Motion*	*Draw an Ellipse*
p. 430 - 432	Explain… Kepler's Second Law		*Draw*
	How is Kepler's Third Law useful?		
	What idea allowed Sir Isaac Newton to explain _____		
	Explain Newton's **Law of Universal Gravitation** (In your own words).		
	What two factors does the force of gravity depend on? 1. _____ 2. _____ Draw arrows (of different sizes) that represent the differences in gravity between objects (models A and B)	**Model A.** 	**Model B.**
Applying Concepts	*Suppose a certain planet had two moons, one of which was twice as far from the planet as the other. Which moon would complete one revolution of the planet first? Draw a picture to help explain your answer.*		

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