

Formation of the Solar System

HAND Draw, Label (summarize info) & Color the Structure of the Sun (pg433)	HAND Draw, Label (summarize info) & Color the Structure of the Earth (pg439)
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Name: _____ Pd _____

Parent Signature of completion: _____

Science Number:

Vocabulary: Section 1

Word/pg	Definition: From the chapter. Be sure to put the page
Solar system	_____ _____ _____ _____
nebula	_____ _____ _____ _____
Solar nebula	_____ _____ _____ _____
planetesimal	_____ _____ _____ _____ _____
rotation	_____ _____ _____ _____
orbit	_____ _____ _____ _____
Revolution & period of revolution	_____ _____ _____ _____ _____
ellipse	_____ _____ _____ _____
Astronomical unit	_____ _____ _____ _____

Reading Notes: Section 1: A Solar System is Born

1. What is a nebula?

2. Look at figure 2 on page 425. What 2 forces balance each other to keep a nebula of dust and gas from collapsing or flying apart? _____ and _____

3. Look at figure 3 on pages 426-427. Copy the steps below (summarize)
 - 1) _____

 - 2) _____

 - 3) _____

 - 4) _____

 - 5) _____

 - 6) _____

4. Why does the composition of giant gas planets differ from that of the rocky inner planets? _____

5. Copy figure 5 on page 429 in the box below. Be sure to label rotation, revolution, and orbit.
6. Look at figure 7 on page 431. Read the paragraph next to it. On what properties does the force of gravity between two objects depend?
 _____ and _____

Reading Notes: Section 2: The Sun: Our Very Own Star

7. Look at figure 9 on page 433. Label the sun's layers from the outside. Write 1 fact about each layer.
 - a) _____:

 - b) _____:

 - c) _____:

 - d) _____:

 - e) _____:

 - f) _____:

 8. Read the section titled *Activity on the Sun's Surface*. What are sunspots?

- Reading Notes: Section 3: The Earth Takes Shape**
- Look at figure 17 on pg 439. Define each of the 3 layers of the earth.
- 1) Crust: _____
 - 2) Mantle: _____
 - 3) Core: _____
9. Skim pages 440-442. How did the Earth's composition change over time?

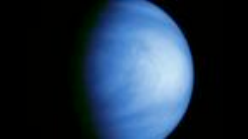
 10. According to the section titled *Oceans and Continents* on page 443, the oceans probably formed early on Earth, by about 4 billion years ago. How and when did the continents begin to appear?

Vocabulary: Section 2 & 3

Word/pg	Definition: Book or your words
Corona	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Chromosphere	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Photosphere	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Connective Zone	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Radiative Zone	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Nuclear fusion	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
sunspot	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Crust	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
Core	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>
mantle	<hr/> <hr/> <hr/> <hr/> <hr/> <hr/>

Web Quest: **The Sun and the planets** (linked off web page)
http://www.bbc.co.uk/science/space/solarsystem/sun_and_planets

Go to the web page, and to the bottom of the page. Click on the name. Watch at least 1 of the videos for each. Record your notes here.

<p>Sun</p> 
<p>Mercury</p> 
<p>Venus</p> 
<p>Earth</p> 

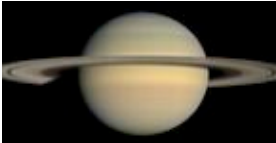
Mars



Jupiter



Saturn



Uranus



Neptune



Teach a parent: Today's concept :

Planetary motion Help your parent become an expert !

Be sure they write what they have learned from your teaching

1. _____ I'm not sure my child really understands,
2. _____ The concept was explained thoroughly with effective examples he/she created.
3. _____ WOW! My child did an exceptional job!

Parent Signature: _____ Date: _____

Mom or Dad Comments: Please explain how your student taught you this concept and * what you learned in 3-5 sentences! * This is critical for them to receive full points

Teach a parent: Today's concept :

Structure of the Sun: Help your parent become an expert !

Be sure they write what they have learned from your teaching

1. _____ I'm not sure my child really understands,
2. _____ The concept was explained thoroughly with effective examples he/she created.
3. _____ WOW! My child did an exceptional job!

Parent Signature: _____ Date: _____

Mom or Dad Comments: Please explain how your student taught you this concept and * what you learned in 3-5 sentences! * This is critical for them to receive full points

Teach a parent: Today's concept :

Structure of the Earth: Help your parent become an expert !

Be sure they write what they have learned from your teaching

1. _____ I'm not sure my child really understands,
2. _____ The concept was explained thoroughly with effective examples he/she created.
3. _____ WOW! My child did an exceptional job!

Parent Signature: _____ Date: _____

Mom or Dad Comments: Please explain how your student taught you this concept and * what you learned in 3-5 sentences! * This is critical for them to receive full points
