Teach a parent: This units concepts:

Planetary Motion

Structure of the Sun

Structure of the Earth

Help your parent become an expert!

Be sure they write what they have learned from your teaching

Parent Response

I'm not sure my child really understands, therefore, I don't either.
Please work with him/her and let's try again. 2 The concept was explained thoroughly with effective examples he/she created.
"By golly, I think they've got it!"
B WOW! My child did an exceptional job! It was logically explained, therefore I caught
on immediately and feel confident about teaching it to others. The self-created examples
vere a perfect fit. My child even asked me a question at the end to make sure I understood.
believe my child could effectively teach this concept to others.
Parent Signature: Date:
Nom or Dad Comments: Please explain how your student taught you
his concept and <u>what you learned in 2-3 sentences for each</u>
This is critical for them to receive full points
Planetary Motion :
-
Structure of the Sun
Structure of the Earth
Additional notes:

Formation of the Solar System

Structure of the Sun (pg433)	Structure of the Earth (pg439)
<u> </u>	
Name:	Pd
Parent Signature of completion	

Vocabulary: Section 1

Word/pg	Definition: Book or your words
Solar system	
nebula	
Solar nebula	
planetesimal	
rotation	
orbit	
Revolution &	
period of revolution	
ellipse	
Astronomical unit	

STRUCTURE OF THE SUN 1) Over 15 millionºC Where energy is produced through _ __, a process where two or more nuclei join together to form a large nucleus Made of mostly ____ Pressure is 340 billion times the air pressure on Earth. Takes millions of years for the energy to travel from the core to the sun's surface. Very _____ region about 300,000 km thick Takes ______ years to pass through 200,000 km thick 3 6 Hot & cool gases __ Related to changes in the sun's magnetic properties "Surface" of the sun 500 km thick Temperature of ~___ First visible layer of the sun Activity on the sun occurs here Cooler dark regions are called Giant storms are called _____ 3,000 km thick ___ to see Inner atmosphere made of thin gases ************ Outer atmosphere Latin word for "crown" Extends _____ ___ times the sun's diameter Gases are so thin that it is visible only during a total a. The sun is _____ times more massive than Earth and contains ______% of the mass of the entire solar system. b. What layer does nuclear fusion occur? _____ c. It takes _____ minutes for sunlight leaving the photosphere to reach Earth. d. True or False (circle one): For unknown reasons, the corona is hotter than the surface of the sun. e. When scientists observe the surface of the sun, what layer are they actually looking at? ______ f. What are the streams of charged particles emitted from the sun deep into space called? ______ g. The sun is made of ______% hydrogen & 7.8% ____

Section 2: The Sun: Our Very Own Star

b)				
(a)				
Section 3: 1) (2) M 3) (3)		;		
Read Cection 3: Look at: 1) (2) M 3) (3)		:		
Read Look at : 1) (2) M 3) (3)		:		
Read Cection 3: Look at : 1) (2) M 3) (3)		:		
Section 3: Look at : 1) (2) M 3) (3)		:		
Look at 2 1) (2) M 3) (ead the section title	ed Activity on the Sur	's Surface. What	are sunspots?
3)	Crust:	og 439. Define each		
1				
		2. How did the Ear		
the oc		ction titled <i>Oceans</i> y formed early on l		billion years

Third Rock from the Sun

Complete this worksheet after you finish reading Chapter 17, Section 3.

- 1. Write your birth date in the empty box in Column B.
- **2.** Draw a line from each time period in Column B to the corresponding event in Column A.

Column A
Blue green algae began photosynthesizing.
Plate tectonics began.
Earth was formed.
Life began on Earth.
A giant global ocean covered the Earth.
Continents really started to grow.
Less than 10 percent of the continents had formed.
Oxygen levels increased rapidly.
You were born.

Column B
1.5 billion years ago
2.5–2.0 billion years ago
2.5 billion years ago
3.5 billion years ago
3.7–3.4 billion years ago
4.0 billion years ago
4.6-3.9 billion years ago
4.6 billion years ago

- **3.** On a separate sheet of paper, create a timeline that ranges from 4.6 billion years ago to the present day.
- **4.** Label each of the events listed in Column A at the appropriate points on your timeline.
- **5.** Before the formation of the ozone layer, what protected bluegreen algae from the dangers of UV radiation?

_____-5-_____

Vocabulary: Section 2 & 3

Word/pg	Definition: Book or your words
Corona	
Chromosphere	
Photosphere	
Connective	
Zone	
Radiative	
Zone	
N. 1 C :	
Nuclear fusion	
sunspot	
Crust	
Core	
Corc	
mantle	
	6

nebula	at figure 2 on page 425. What 2 forces balance each other to keep a a of dust and gas from collapsing or flying apart? and
Look	at figure 3 on pages 426-427. Copy the steps below (summarize)
1)
2)
3)
4)
5)
6)
	does the composition of giant gas planets differ from that of the rock planets?
	figure 5 on page 429 in the box below. Be sure to label rotation, ation, and orbit.

10. 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 _____