My Little Book on Matter Chp 2

Name:			_Period:	Sci Number:
	What's	the	MQ	Her
	ОпП	٨٨	пп	

with Matter?

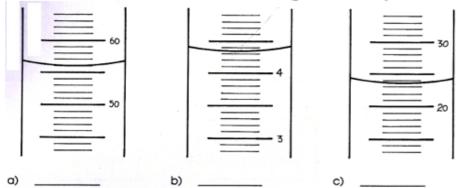
Draw or paste some examples of matter on your cover!

Pg 2: What is Matter:

	ig 2. What is Matter.
Word: Pg found	Section 1 definitions: Read this section, then fill in your definitions.
Matter Page 36	Matter is anything that has and and
Volume Page 36	The amount oftaken up, or occupied, by an object is known as the object's volume.
Meniscus Page 37	Thethat you see at the liquid'shas a special name – the meniscus.
Mass Page 38	Mass is the amount of in a given
Gravity Page 39	Gravity is a force ofbetween objects to experience a "" toward other objects.
Weight Page 40	Weight is simply a measure of the force of an object.
newton Page 41	Weight is a measure of gravitational force and must be in of force.
inertia 42	Inertia is the tendency of all objects toany change in motion.

Measuring Volume

Write the correct volume for these graduated cylinders



Section 1: What is Matter? (pages 36 - 42)

1. Explain how you would find/calculate the volume of each type of matter in the chart at the top of the next column.

Liquid	Solid	Gas

2. Matter has volume: pg 36 Mark each of these statements *True* or *False* a. ___ An object's volume is the amount of space the object takes up b. ___ Things with volume can't share the same space at the same time c. ___ When measuring a volume of water in a graduated cylinder, you should look at the bottom of the meniscus. d. ____ A liquid's volume is usually expressed in grams or milligrams 3. Copy figure 6 on page 39 in the box below. SUMMARIZE the sentences.

Drawing A	Sentence for A
Drawing B	Sentence for B
Drawing C	Sentence for C

4. Oananiata tha harran halarri

4. Complete th	le boxes below.
Mass is	Weight is
· A measure of the amount of in an object	· a measure of the on an object
constant for an object no matter where the object is in the universe	the object is in relation to the Earth
· measured with a	· measured with a
expressed in, , and,	expressed in
Any additional notes Y	OU WANT for section 1
Please use this format for the Teach It Master It (Ti around the table helps to teach a concept, do it! The concept, the better YOU the student will understand coo! To teach the assignment/concept, you may use You may also use the book as a guide. PLEASE HA' Parent Response	ne better YOU the student can teach the d the concept. AND you might just have some fur e ANY or ALL of these techniques to help. VE FUN!!
I'm not sure my child really understands The concept was explained thoroughly w "By golly, I think they've got it!"	vith examples he/she created.
3 WOW! My child did an exceptional job! It	was logically explained,
Parent Signature: Mom or Dad Comments: Please explain how your s earned in 2 sentences!	Date: tudent taught you this concept and what you
po	9-4

Pg5: Section 2: Describing Matter (pages 43-51)

Word:	Section 2 definitions:		
Pg found	Read this section, then fill in your definitions.		
Physical property Page 43	A physical property of matter can be or the identity of the matter.		
Density Page 44	Density is the amount ofin a given The formula is:		
Chemical property Page 47	Chemical properties describe a substance based on its ability tointo a new substance with different properties.		
Physical change	A physical change is a change thatone or more properties of a substance.		
Chemical change	A chemical change occurs when one or more substances are changed into substances.		

Describing Density: pg 44-46			
1. Look on page 45. Skim "Spotlight on Density" and "Using Density to Identify Substances"			
a.	What is the formula for calculating density?		
b.	What is the density of water?		
c. Why does a golf ball feel heavier than a ping-pong ball?			
2. Look on page 46. What does figure 12 tell you about the density of the liquids in the jar?			
3. What a	re 2 reasons why density is a useful property for identifying substances		

Pg46 Draw the Density Jar Color/Label the different layers:most/least dense Top-bottom

Pg6: 2. Match each physical property in Column B to the correct phrase in Column A, then write the correct letter. Use the table on pg 44 to help you!

Column A	Column B
1. Sand does not dissolve in water	a. state
2. Gold can be made into gold foil	b. thermal conductivity
3. Ice is the solid form of water	D. Thermal conductivity
4. Copper can be drawn out into wire	c. solubility
5. A foam cup protects your hand from being burned	d. density
by the hot chocolate in it	d. density
6. Ice cubes float in a glass of water	e. ductility
because of their mass per unit volume.	f. malleability

5. A foam cup protects your hand from being burned	d. density
by the hot chocolate in it	
6. Ice cubes float in a glass of water	e. ductility
because of their mass per unit volume.	f. malleability
Physical & Chemical Prop	erties
State whether each is an example of a Physical (P) or Chemi-	cal (C) property.
1. A rock's density	
2. boiling point of Gatorade	
3. ability of an old car to rust	
4. red color of a ripe apple	**
5. ability of wood to ignite	
6. bitter taste of a lemon	
7. melting point of wax	10 10
8. hardness of marble	
9. Luster (shininess) of gold	an mi
10. Reacts with an acid to form hydrogen	200
11. Smell of sulfur	
12. Reacts with a water to form a gas	
13. luster of aluminum foil	
14. texture of a nail file	
15. Supports combustion	
16. Can neutralize a strong acid	
17. Freezing point of water	
18. Temperature of hot chocolate	
19. Smoothness of our desks	
20. Mass of a textbook	The state of the s
21. Smell of an orange	- William
22. Whistle of a tea kettle	A CONTRACTOR OF THE PARTY OF TH
23. Reacts with oxygen to form carbon dioxide	

Dhaminal & Chaminal Climpan

cal (C) change.
The second second
and the same of th
S. Allendaria
44
The second
A Tara
3632

Teach a parent: Today's concept is: What is Density?

Students: help your parent become an expert!

This should be fun!! If dancing around the table helps to teach a concept, do it! The better YOU, the student, can teach the concept, the better YOU the student will understand the concept. AND you might just have some fun too! You may also use the book as a guide.

Parent Response

You can rearrange the formulas: Density: D=m/v (mass/volume) Mass: m=D/V Volume: V=m/D		
Find the density of a substance with a mass of 5kg and a volume of 43 m ³	Suppose you have a lead ball with a mass of 454g. What is its volume? Lead's density: 11.35 g/cm ³	
3. What is the mass of a 15mL sample of mercury?(density of mercury is: 13.55 g/cm³)	4. A block of pine wood has a mass of 120g and a volume of 300 cm ³ . What is the density of wood?	

Review Questions:

- 1. Which of these is not matter? a. a cloud b. your hair c. sunshine d. the sun
- 2. The mass of an elephant on the moon would be a. less than its mass on Mars. b. more than its mass on Mars. c. the same as its weight on the moon. d. None of these
- 3. Which of the following is not a chemical property?
 - a. reactivity with oxygen b. malleability c. flammability d. reactivity with acid
- 4. Your weight could be expressed in which of the following units?
- a. pounds b. newtons c. kilograms d. Both (a) and (b) 5. You accidentally break your pencil in half. This is an example of
- a. a physical change. b. a chemical change. c. density. d. volume.
- 5. Which of the following statements about density is true? a. Density depends on mass and volume.
- b. Density is weight per unit volume c.Density is measured in milliliters d.Density is a chemical property
- 6. Which of the following pairs of objects would have the greatest attraction toward each other due to gravity? a. a 10 kg object and a 10 kg object, 4 m apart b. a 5 kg object and a 5 kg object, 4 m apart c. a 10 kg object and a 10 kg object, 2 m apart d. a 5 kg object and a 5 kg object, 2 m apart
- 7. Inertia increases as ___?__ increases. a. time b. length c. mass d. volume