Name:	Date: Hour:	
Essential Question:	'hat are properties of matter? (CHAPTER!)	
Questions/Main ideas	1: What Is Matter?	
	Matter is anything that has and takes u	ρ
	 Matter and Volume: The amount of take 	en uo.
	or, by an object is known as the obje	
	 Quick Lab: Space Case #5: How do the results she that air has volume? Explain: 	OW
	Liquid Valuman The westerning Lake Enia accelet fill ma	-
	 Liquid Volume: The water in Lake Erie could fill m than2-liter bottles. 	ore
	and are t	he
	units used most often to express the volume of a	
	 Measuring the Volume of Liquids: 	•
	<u></u>	are
	used to measure the liquid volume when accurac	y is
	important. The curve at the surface of a liquid is	called
	a You must look at t	he
	of the meniscus to measu	re
	accurately.	
	 Volume of a Regularly Shaped Solid Object: The 	
	volume of solid objects is expressed in	
		ubic
	and cubic are the most common	
		\
		n units.
	For solid figures:	
	For solid figures: volume =xxx	
	For solid figures: volume =xx volume of an Irregularly Shaped Solid Object Yo	— u can
	For solid figures: volume =xxx	— u can ng the

Name:		Date:	Hour:
•	Matter and Mass:	Mass is the amoun	
	- 	in an ob	oject. The mass of an
	object is the	no m	natter where in the
		an object is	
	The Differe	nce Between Mass	and Weight: Mass &
	weight are	the	·
		is a measure	e of the
			force exerted on
	an object	is	always constant.
		change	s depending on where
	the object i	s in relation to Eart	h.
	 Measuring 	Mass and Weight: N	Mass is often expressed
	in		, or
		Weig	ght is expressed in the SI
	unit of forc	e, the	·
•	Inertia: is the tend	dency of an object t	0
		a change in m	otion.
	o Mass: The N	Measure of Inertia: /	An object that has a
		mass is h	arder to get moving and
	harder to s	top moving than ar	object that has
		mass.	
Summary:			

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Name:		Jale.		nour.,	

Essential Question: What are properties of matter? (CHAPTER!)

Questions/Main ideas

1.2: Physical Properties

- Physical Properties: A physical property of matter can be ______ or _____ without changing the matter's identity. Examples of physical properties:
 - _____
 - **-----**
 - **-----**
 - _____
 - Identifying Matter:
 - ______: Are your socks clean or dirty?
 - ______: Will your books fit in your backpack?
 - Does your shirt match your pants?
 - Density is a physical property that describes the relationship between _____ and

Example: Golf ball & ping pong ball. They have similar _____, but different

The _____ has a greater density.

o Liquid Layers:



 Density of Solids: Would you rather carry around 1Kg of lead, or 1KG of feathers?

Name:	Date: Hour: 1Kg of lead & 1 Kg of feathers have
	1Kg of lead & 1 Kg of feathers have
	, but
	-
	Knowing density of a substance helps us to decide if it
	will
	Objects sink when their density is
	than water.
	Objects float when their density is
	than water.
	 Solving for Density:
	Density =
	 Using Density to Identify Substances: Each substance has a that is
	than other substances (see
	table 1 on pg. 13).
• P	Physical Changes Do Not Form New Substances: a
_	is a change
tı	hat affects one or more physical properties of a substance.
	Example: a chunk of silver being shaped into a heart shaped
ρ	pendant.
	 Examples of Physical Changes:
	-
	-
	-
	 Matter and Physical Changes: Physical changes DO
	NOT change the of the matter
	involved.
	Examples:
	-
	-
Summary:	

Essential Question:	What are properties of matter? (CHAPTER!)
Questions/Main ideas	Chemical Properties Chemical Properties describe matter based on its ability to change into new with different
	■ ■ Flammability-the ability of a substance to
	Reactivity-the ability of two or more substances to and form a new
	 Comparing Physical and Chemical Properties: Physical properties can be without changing
	the identity of the substance. Example: and of wood.
	Chemical properties-not easy to You can only see when wood is actually
	 Characteristic Properties-most useful in identifying substances. Always the same no matter the of a sample.
	Physical examples:& Chemical examples:&
	Chemical Changes-when one or more with are changed into new with new/different What Happens During a Chemical Change? When baking a cake you combine all of the The heat of the
	oven and the mixture of the ingredients cause a change. A cake
	has very differentthan cake batter. Signs of Chemical Changes change in change in
	 change in Matter and Chemical Changes: Chemical changes are hard to Some can be reversed through more

Name: ______ Date: _____ Hour: _____

Name:	Date: Hour:
	Physical Versus Chemical Changes-did thechange?
	Composition-the type of that
	makes up an object and the way the matter is
	A change in Composition
	Physical changes change
	composition.
	■ Chemical changes change
	the composition.
	Reversing Changes Reversing Changes
	 Physical changes usually be reversed. (example: ice melting and
	refreezing)
	■ Chemical changes usually
	be reversed.
Summary:	