Name:	
Date:	Core:

Properties of Matter Guided Notes

Matter is	
(made of atoms and takes up space)	······································
is made up of ato	oms
	and has certain ways it behaves, looks,
smells, etc. These are known as its _	
There are three main states of matte	er:,
, and	
Physical properties are characteristicher changing the substance	cs that can be observed
Physical properties are described usi	ng our
Examples of physical properties	
red,	black, colorless
squa	are, round irregular
wha	t could we compare the smell too?
(does it draw, pull, or repel objects?
(does it hold up to pressure? Is it easily
scratched?	
\	what does the object feel like?
t	the ability to reflect light (dull, shiny)
t	the ability to be reshaped
the a	amount of matter in an object
Characteristic properties are	properties that
	hased on the amount of substance

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Characteristics proper	ties are used to identify	
Examples of character	ristic properties	
•	the amount of mass per volur	ne (the
	in the space an object takes up)	ine (tine
Density Fo	rmula: $\frac{mass}{volume}$	
Units:	for gasses and liquids	
	for solids	
•	which the substance changes states i.e. when or or	it
states to gas	point- the temperature where liqu	id changes
	point- the temperature where solid is the same temp where the substance will fre	
Why isn't mass a char	racteristic property?	
substance	en a substance goes through a physical chang	<u>e</u> the
-	properties that can only be observed by	
	_ the original substance into a new one	
	be observed in normal circumstance	S
Examples of Chemica	l Properties	
_	-how easily will a substance ignite?	

		Name:	
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	when exposed to	o oxygen it chemicall	y reacts to
form things like rust o	r the browning of ar	apple	
	how acidic or basic	a substance is when	dissolved in
water			
Chemical Changes - A substa		chemical change wh	nen a
substance goes through a $_$			
and becomes as	substance with new	properties	
Examples			