Brainpop—States of Matter

Name: Period:

Watch the Brainpop on states of matter, then ans	swer the questions below.
 1. Which statement best describes matter a. matter is anything that is solid b. matter is anything that takes up space c. matter is anything that has a fixed volume 	water when it changes into a different state of matter? a. water molecules break apart to form individual atoms
d. matter is anything that can be seen	b. water molecules harden into ice moleculesc. water molecules melt into gas molecules
2. What is all matter made of?	d. nothing happens to the chemical structure
a. atoms d. liquids	- Maria - 1911 - 17
b. molecules e. gases	7. What will happen if you keep increasing the temperature of a liquid?
c. solids	a. it will eventually boil
3. The chemical formula for water is H ₂ O.	b. it will eventually melt
What does this code mean?	c. it will eventually solidify
 a. water is composed of hydrogen molection and oxygen molecules 	ules d. nothing
b. when hot, water contains 20 hydroger	8. How can you remove energy from matter?
atoms	a. by increasing its volume
c. each water molecule contains two	b. by lowering its temperature
hydrogen atoms and one oxygen aton	, , ,
d. when heated, water turns 2 steam	d. by boiling it
4. In what way are liquids different from so a. liquid molecules are lighter than solid	olids? 9. Gases have a tendency to expand. What's the best synonym for "expand"?
molecules	a. collide
b. liquids are made of atoms; solids are	made b. spread out
of molecules	c. shrink
c. liquids don't have a fixed shape; solids	s do d. boil
d. liquids are always heavier than solids	40 M/hataradd ha llas haatarada da asila
5. What is the basic shape of a liquid?	10. What would be the best way to describe the movement of particles in a solid?
a. a sphere	a. they move quickly in all directions
b. the same as a gas, only rounder	b. they move slowly and slide past each other
c. a cube	c. they barely move and vibrate in place
d. whatever the shape of its container is	d. they don't move at all
true, write "true" on the line. Possible word choic energy	molecules volume
1 All matter is made	e up of tiny particles called ATOMS .
2 Liquids have a fix	ed TEMPERATURE, but no fixed shape.
3 Molecules of ice h	nave less MASS than molecules of water.

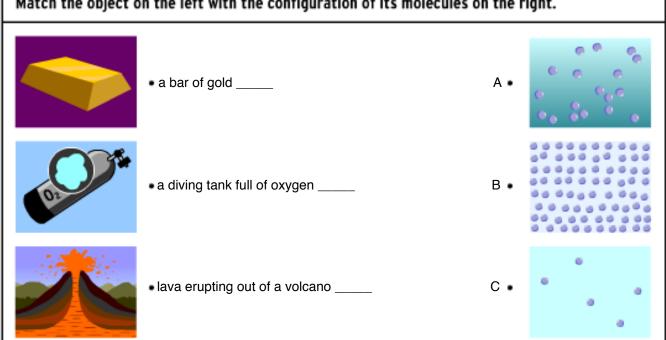
Practice: 8 points, Assessment: 2 points

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Match the object on the left with the configuration of its molecules on the right.





Why does the freezer in your refrigerator turn water (a liquid) into ice (a solid)? You must use the word energy in your answer.