

Bill Nye The Science Guy!

Phases of Matter

Block:

1. The Universe is made of _____.
2. Matter comes 3 ways, what we call phases. The three phases of matter are _____ & _____.
3. Molten steel, melted steel, liquid steel, and solid steel are different because of _____.
4. Getting things to change phases takes _____.
5. If you want to turn a liquid into a solid you have to _____ away.
6. Where does the energy go from the things you put into a freezer?
7. What do you get when you fry ice? A _____ turns into a _____ into a _____. Those are some pretty _____ molecules!
8. How cold is Liquid Nitrogen? _____ What percent of our air is Nitrogen? _____.
9. The heat from the air makes molecules _____, get _____ apart and change from a liquid to a gas.
10. Liquid Nitrogen makes molecules slow down, get _____.
11. Now you know the three phases of matter. Solid like this _____, and liquid like this _____ and gas like this _____.
12. Suppose there was no motion at all, the molecules are absolutely stopped. This is what scientists call _____. That would be colder than anything you could ever imagine!
13. Can you get to absolute zero? (Yes/No) _____.
14. Solid, liquid, gas, three phases of matter. Solid, molecules are moving _____, packed close together. Liquid, molecules are moving a little _____, they are able to flow a little bit. Gas, molecules are moving very _____, they're just wild! Three phases of matter!
15. How can you prove that invisible gas is matter? _____.
16. When matter is in the gas phase, it takes the shape of its _____. When matter is in the liquid phase, it takes the shape of its _____. When matter is in the solid phase it _____ its shape.