

Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

## ***Video Worksheet-Bill Nye "States of Matter"***

The questions follow along with the video. Answer as many of the questions as possible.

- 1.) The universe is made of \_\_\_\_\_.
  - 2.) The only difference between molten (liquid) steel and solid steel is the amount of \_\_\_\_\_ in it.
  - 3.) Solid, liquid, gas are all \_\_\_\_\_ of matter.
  - 4.) For matter to "change phase" we must add or take away \_\_\_\_\_.
  - 5.) A freezer acts like a heat \_\_\_\_\_ to remove the energy from inside the freezer to outside the freezer.
  - 6.) The temperature of liquid nitrogen is - \_\_\_\_\_ degrees Celcius.
  - 7.) When you put cool something in liquid nitrogen the molecules \_\_\_\_\_ down and get closer together
  - 8.) The temperature gauge like a thermometer reads a lower temperature when the molecules of the liquid or gas are moving \_\_\_\_\_.
  - 9.) TRUE or FALSE At absolute zero there is absolutely no motion of the molecules that make up the matter.
  - 10.) TRUE OR FALSE It is possible to reach the temperature of absolute zero.
  - 11.) The gas in a can of soda is \_\_\_\_\_.
  - 12.) TRUE or FALSE You can "weigh" a gas.
  - 13.) Glowing gas because it is charged with electricity is called a \_\_\_\_\_. (Hint: the fourth state of matter)
  - 14.) A \_\_\_\_\_ and a \_\_\_\_\_ take the shape of their container but a solid holds its shape
  - 15.) Did you like this video? \_\_\_\_\_ Why or why not? \_\_\_\_\_
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