# Bill Nye – Phases of Matter

As you watch Bill Nye Phases of Matter, answer the following questions:

1. What is Bill Nye the Science Guy brought to you by?

1. The universe of made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Matter comes in three phases (states). They are:

 a.

 b.

 c.

1. The difference between molten steel and solid steel is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Solid, liquid, and gas are all phases of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Getting things to change phase takes \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Water vapor is invisible. True False

1. If we want to change a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, you would have to take away energy.

1. Liquid nitrogen is so cold, the energy in the room can make it \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. The faster the molecules are going, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the gage will read. The slower the molecules are going, the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ the gage will read.

1. When the motion of molecules stop, that is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. Scientists have reached absolute zero. True False

1. The Way Cool scientist works for the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_ company.

1. The gas is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ than the air so the bag goes down.

1. When matter is in the gas phase, it takes the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of its container. When matter is in the liquid phase, it takes the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ of its container.

1. Bill Nye tells that he is cooking, changing the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.