

Name: _____

Date: _____

Phase of Matter KEY

1. 78% of our air is **nitrogen**.
2. Absolute zero is the temperature at which all molecules would stop **moving**.
3. Pressure is a reading of **moving molecules**. The faster the molecules are going, the **higher** the pressure gauge will read. The slower the molecules are going, the **lower** the pressure gauge will read.
4. Can scientists cool matter to absolute zero? Explain your answer.
No, there would always some energy transfer between the inside and outside of the container.
5. The universe is made of **matter**.
6. Matter comes in three phases: **solid, liquid, or gas**.
7. liquid water, when heated, changes phase into water vapour: **a gas**.
8. How does a refrigerator cool food and drinks
A refrigerator removes energy from the system, which in turn, removes energy from food.
9. Getting things to change phase takes **energy**.
10. When matter is in the **gas** and **liquid** phase, it takes the shape of its **container**. But when matter is in the solid phase, it holds its shape.
11. What happens when molecules slow down? **They start to move closer and closer together.**
12. Liquid nitrogen is **-196 degrees Celsius**.