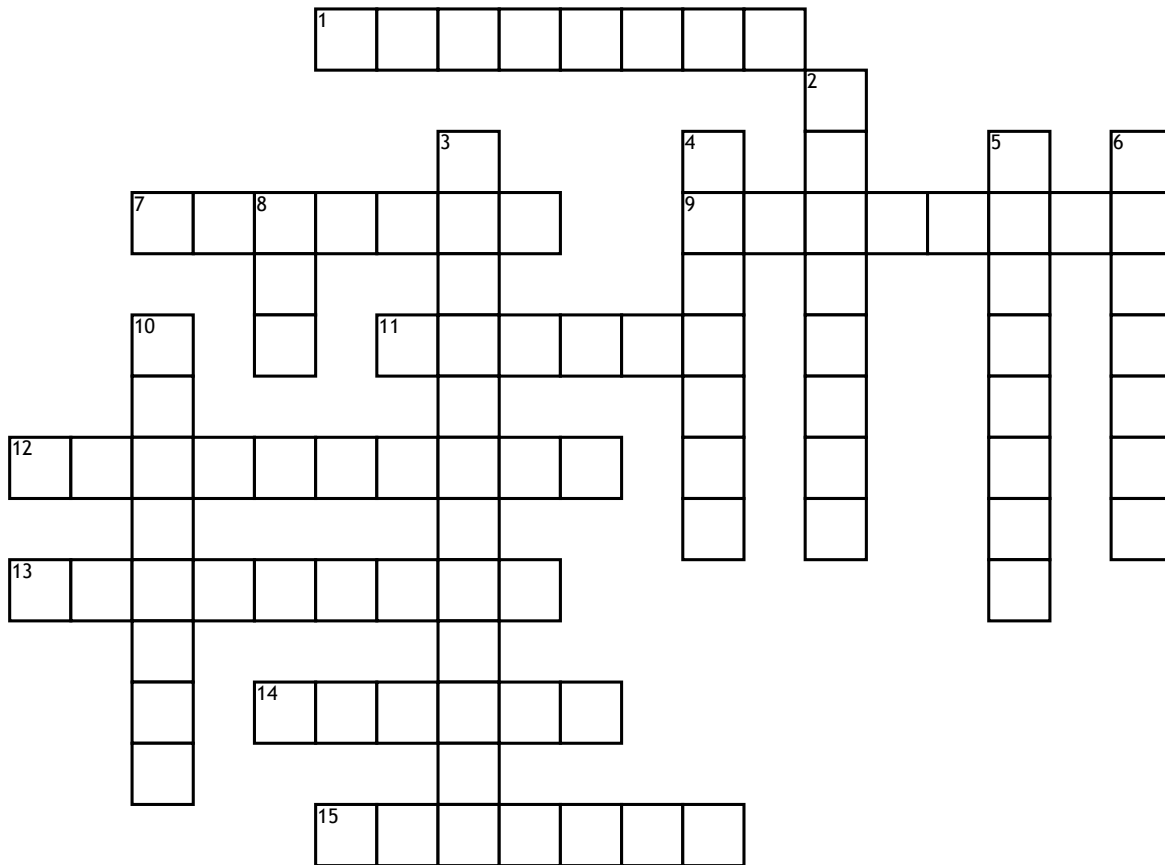


Name: \_\_\_\_\_

# Particle Model



## Across

1. 'The energy stored by the particles of a substance is called the \_\_\_\_\_ energy

7. A solid has a \_\_\_\_\_ arrangement of particles

9. Increasing the kinetic energy store would cause the internal energy to...

11. Density= Mass/?

12. The change of state from a gas to a liquid is

13. The energy particles have due to their position relative to one another

14. specific latent heat of \_\_\_\_\_ of a substance is the energy needed to change the state of 1kg of the substance from solid to liquid

15. A substances mass per unit of volume

## Down

2. If you put a balloon in the freezer the gas pressure inside it would

3. specific latent heat of \_\_\_\_\_ of a substance is the energy needed to change the state of 1kg of the substance from liquid to vapour

4. This energy store is due to the motion of individual particles

5. The amount of energy it takes to heat 1kg of a substance by 1°C is the specific heat

6. The change of state when a solid changes to a liquid

8. Particles move fast and randomly in all directions

10. When a change of state occurs the temperature is