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Particle Model

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| **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 rondomly in all directions  **10.** When a change of state occurs the temperature is |