

## Heat and Temperature Practice Quiz

### Topic 5 - The Particle Model and Changes of State

1. The sun shines down on the banks of a river (and the river itself). The thermal energy absorbed will be ...

**more in the water**

**more in the soil**

**almost the same in both**

**dependant on the mass of each**

2. When a substance undergoes a change of state, energy is involved. Which change of state involves a release of energy?

**melting**

**sublimation**

**evaporation**

**fusion**

3. As high-energy particles escape from the surface of a liquid, by evaporation, the remaining liquid cools. This surface cooling phenomenon is described by scientists as ...

**evaporative cooling**

**subliminal cooling**

**fusion**

**condensive evaporation**

4. During a phase change, the temperature remains the same, so the particles have ...

**less average energy**

**more average energy**

**the same average energy**

**a faster speed**

5. The water droplets that form on a shower door have undergone a phase change. Prior to the droplets forming, the water was in a state of ...

**absolute flux**

**suspended animation**

**liquid**

**gas**

**Answers**

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### Topic 5 - The Particle Model and Changes of State

1. The sun shines down on the banks of a river (and the river itself). The thermal energy absorbed will be ...

**more in the water**

**more in the soil**

**almost the same in both (Text p. 218) The sun shines equally on both substances and so the thermal energy will increase the same for both substances**

**dependant on the mass of each**

2. When a substance undergoes a change of state, energy is involved. Which change of state involves a release of energy?

**melting**

**sublimation (Text p. 220) Figure 3.18**

**evaporation**

**fusion**

3. As high-energy particles escape from the surface of a liquid, by evaporation, the remaining liquid cools. This surface cooling phenomenon is described by scientists as ...

**evaporative cooling (Text p. 221) Evaporation cools the liquid**

**subliminal cooling**

**fusion**

**condensive evaporation**

4. During a phase change, the temperature remains the same, so the particles have ...  
**less average energy**

**more average energy**

**the same average energy (Text p. 224) When the temperature remains the same, the average energy of the particles remains the same**

**a faster speed**

5. The water droplets that form on a shower door have undergone a phase change. Prior to the droplets forming, the water was in a state of ...

**absolute flux**

**suspended animation**

**liquid**

**gas (Text p. 225) The Water vapour in the air was hot water from the shower, when it came into contact with the door, it condensed into a liquid**