

كلية العلوم

القسم : الفيزياء

السنة : الثانية



المادة : لغة تخصصية ١

المحاضرة : الخامسة / نظري /

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What are the four properties of water ?

1 – It stick to itself : The property that holds molecule together is **cohesion** . Water molecule stick together tightly because of their polarity , so water has high cohesion .

2- It stick to other substances : The property that holds molecule of different substances together is **adhesion** .

3 – It can absorb large amount of energy : The energy needed to heat a substance by a particular amount is called its **specific heat** . Warm water stores more energy than cold water does .

4 – It dissolves many things : A liquid that dissolves substances is called a solvent . Water dissolves many substances . Therefore , water is often called the **universal solvent** .

What is the water cycle ?

Movement of water between the atmosphere , land , ocean , and even living things makes up the water

cycle . Rain , snow , and hail fall on the oceans and land because of gravity . On land , water flows in streams , rivers , and waterfalls . If the land is flat , water will collect in certain areas forming ponds , lakes , and marshlands . Some water will soak through the ground and collect underground as groundwater . Water vapor can travel great distances with the wind .

How does water change state ?

Water is found in three states on earth : as liquid water , as solid water ice , as gaseous water vapor . water is visible as liquid or solid , but it is invisible as a gas in the air .

Evaporation : occurs when liquid water changes into water vapor Most of the water vapor evaporates from the oceans . This is because oceans cover most of earth's surface Therefore , oceans receive most of the solar energy that reaches earth .

Transpiration : Like many organisms , plants release water into the environment . Liquid water

turns into water vapor inside the plants and moves into the atmosphere through stomata .

Sublimation : When solid water changes directly to water vapor without first becoming a liquid . It is called sublimation .

Condensation : It is the change of state from a gas to a liquid . Condensation occurs if air that contains water vapor is cooled enough . Some of the water vapor condenses as clouds fog and mist .

Precipitation : In clouds , water droplets may collide and stick together to become larger . If a droplet becomes larger enough , it falls to earth 's surface as precipitation .