

Question Text	Answer 1	Answer 2	Answer 3	Answer 4	Answer 5	Subject
whats the difference between adhesion and cohesion?	cohesion is the binding together of like molecules and adhesion is the binding of dislike molecules.	adhesion is the binding together of like molecules and cohesion is the binding of dislike molecules	adhesion is the binding of molecules that are in a hydrogen bond nad cohesion is the binding of molecules that are in a oxygen and hydrogen bond.	na	na	Adhesion - Cohesion
Millions of water molecules holding on to each other form droplets of water. This is an example of:	Water	Cohesion	Adhesion	pH	na	Adhesion - Cohesion
What causes surface tension?	adhesion	cohesion	capillary action	attaching to another substance	na	Adhesion - Cohesion
What is adhesion?	when molecules are bonded to their neighbors	clinging of one substance to another	measure of force necessary to stretch or break the surface of a liquid	amount of heat that must be absorbed for 1 gram to change 1 degree	na	Adhesion - Cohesion
What is an example of adhesion?	Transport water to plants	capillary action	Surface tension	regulating temperature	na	Adhesion - Cohesion
What is an example of adhesion?	Water repelling the walls of a capillary tube	Water clinging to the walls of a capillary tube	Water evaporating	Water freezing	na	Adhesion - Cohesion
What is an example of cohesion?	water clinging to a capillary tube.	water moving through trees	surface tension	all of the above	both b and c	Adhesion - Cohesion
What is the difference between adhesion and cohesion?	They form hydrogen bonds.	They are water molecules	Their polarity.	No difference	All of the above	Adhesion - Cohesion
What is the example of adhesion and cohesion?	adhesion is adding water, cohesion is cutting water	adhesion is water travel up a tube, cohesion is water connecting to each other	adhesion is super sticky, cohesion is hexagonally shaped	cohesion is the connection of water bonds, and adhesion is water bonds	na	Adhesion - Cohesion
Which of the following properties cause surface tension?	High specific heat	Heat of vaporization	Evaporative cooling	Kinetic energy	cohesion	Adhesion - Cohesion
Why is there surface tension?	adhesion	molarity	cohesion	pH	na	Adhesion - Cohesion
How does ice floating help the planet?	By making the world a giant ice cube	Freezing the oceans	Making the earth not freeze over	All of the above	na	Ice Floats
if ice sank, what would happen to the enviornment?	kill off species of animals	cause climate change	ponds and lakes would freeze over	all the above	na	Ice Floats
what characteristics of water make it unusual?	its neutral	water is not a solvent	its less dense as a solid than as a cold liquid	it contracts as it solidifies.	na	Ice Floats
What is the importance of ice floating?	The ice on the surface of water would insulate the water below.	It has no significant impact on living things.	The ice on the surface of water would freeze up the water below.	The water would be warm.	na	Ice Floats
What would happen if ice didn't float.	Water would freeze every where.	People would all live in Alaska,	Fish would have legs due to naturel selection.	There would be no sun.	na	Ice Floats
What would happen if ice didn't float?	The world would turn into a giant ice cube.	Aquatic animals would thrive.	Ice would keep sinking until the entire ocean was frozen over.	Both A and C	All of the above	Ice Floats
Why does ice float?	Lower mass than water	Lower density than water	Lower volume than water	Less weight than water	na	Ice Floats
Why does ice float?	the molecules expand as the solidify	the moecules contract as they solidify	ice weighs less than water	both a and c	na	Ice Floats

Why does ice float?	because it weighs less than water	because there are air pockets within the ice	because water expands as it solidifies	because it is colder than the water	na	Ice Floats
Why is ice floating important to life?	Makes sure all organisms that live in water do not die	Controls overall climate on Earth.	Makes sure all bodies of water are not a giant ice cube.	Only B and C	None of the above	Ice Floats
Why is it important for ice to float?	All bodies of water would freeze	All bodies of water would melt	Land would freeze	Land would melt	na	Ice Floats
In a solution of sugar and water, which is the solvent?	sugar	water	candy	milk	na	Solvent
In an aqueous solution, what is the solvent?	water	dissociated water molecules	soda acid	salt crystals surrounded by hydrogen bonds	na	Solvent
What are the elements in the solvent for water?	Hydrogen and Oxygen	Oxygen and Carbon	H ₂ O	none of the above	na	Solvent
What is a solution?	A liquid that is completely homogeneous mixture of two or more substances	the answer to a problem.	another word for solute	A liquid that is completely heterogeneous mixture of two or more substances	na	Solvent
What is it called when each ion is surrounded by a sphere of water molecules?	Hydrophobic	Cohesion	Aqueous solution	Hydration shell	na	Solvent
Which of the following is NOT true about water dissolving solutes?	Water will only be attracted to solutes with non-polar covalent bonds.	Water molecules surround the solute's molecules	Water can dissolve large molecules, such as proteins	Water is attracted to solutes with ionic and polar bonds	na	Solvent
Which of the properties of water make water a versatile solvent?	Specific Heat	Vaporization	Hydrogen bond	H ₂ O	na	Solvent
Which statement is true about solvents?	it's the dissolving agent	water is not an effective solvent	it's the substance that is dissolved	they can never be acidic	na	Solvent
Why is water an effective solvent?	it readily forms hydrogen bonds with charged molecules	because it readily forms bonds with polar molecules	because you can find it easily	both a and b	na	Solvent
Why is water an effective solvent?	forms ionic bonds with solute	forms covalent bonds with solute	Form hydrogen bonds with charged polar and covalent molecules.	B and C	na	Solvent
Why is water the "universal solvent"?	Water is a solvent	Dissolves mostly anything.	Does not dissolve anything.	Only A and B.	None of the above.	Solvent
An example of High Specific Heat in water would be:	Many substances dissolve quickly in water	Water droplets form rounded drops or beads	Costal areas have milder climates than inland areas	During winter, air temperatures can be very cold, while animals live comfortably underwater	Both C and D	Specific Heat-regulation-cooling
How does water moderate temperature on earth.	Water stabilizes air temperature by absorbing heat from warmer air and releasing heat to cooler air.	The sun reflects heat of the water. Like a mirror.	The water evaporates causing hot air.	The amount of life sustained under water warms and cools the earth.	na	Specific Heat-regulation-cooling
How much energy does water take to heat up?	It takes a lot of energy to heat up.	It takes less energy to heat up	It takes no energy to heat up.	Has no specific heat.	None of the above	Specific Heat-regulation-cooling
Specific heat is due to...	ionic bonds	Van der Waals attraction	hydrogen bonding	polarity	na	Specific Heat-regulation-cooling
The transformation of a molecule from a liquid to a gas is called	melting	vaporization	evaporation	both b and c	na	Specific Heat-regulation-cooling

True/False: specific heat is when one gram of heat energy is required to raise the temp of a substance one degree celcius?	True	False	0	0	na	Specific Heat-regulation-cooling
What causes waters high specific heat?	cohesion	hydrogen bonding	dislocation of water molecules	acid precipitation	na	Specific Heat-regulation-cooling
What is a calorie?	A pound	Gram of food	Amount of heat energy necessary to raise the temperature of one gram of water	A joule	na	Specific Heat-regulation-cooling
what is the difference between heat and tempature?	tempature is a form of energy, heat is a measure of that energy.	tempature is a measure of energy, heat is a form of energy.	heat is the amount of celcius, tempature is a measure of heat.	all of the above	both a and b	Specific Heat-regulation-cooling
What is the difference between heat and temperature?	Temperature is a form of energy while Heat is the measure of temperature.	Heat and temperature are related but not identical.	Heat is a form of energy and temperature is the measurement of heat.	Heat is the amount of potential energy and temperature is a form of energy.	na	Specific Heat-regulation-cooling
Which of the following properties is the reason why we sweat?	Ice Floats	High Specific heat	Evaporative Cooling	Adhesion	na	Specific Heat-regulation-cooling