Name					Block	Date	·				
				Quiz – W	ater Propert	ies (BIO.2a)					
Use the terms below to identify each of the following descriptions. Each term will be used only once. (1pt each)											
	Adhesion	Capillary Action	Cohesion	Heat Capacity	Hydrogen Bonding	Density of Ice	Polarity	Surface Tension	Universal Solvent		
	- Due to both cohesion and adhesion of water molecules, water can "climb" up thin tubes - Due mainly to cohesion, water can allow objects and organisms to "rest" on water's surface as if it had a "skin" on top. - Ice (solid water) floats in liquid water										
	- Individual water molecules have unequal distribution of electrons, leading to positively-charged a negatively-charged ends										
	- Weak chemical bonds form between the negatively-charged and positively charged ends of neighboring water molecules										
	- Water can absorb or lose large amounts of heat energy without changing temperature very muc								much		
	- Water molecules are attracted to other water molecules										
	- Water "sticks" or is attracted to many other substances										
	- Water will dissolve many substances into a solution										
Explai	in why all livir	ng things nee	d water to surv	/ive. What ab	out water mak	es it essential	for life? (3 pa	ts)			

Name			Block	Date					
In the left box, draw one wateIn the right box, draw at least					•	_	,		
Single Wat	Single Water Molecule (with atoms and charges labeled)			l water molecule and 1 hyd					
Los the terms below to identify a	each of the fall	owing overn	los Foot tor	m will be used a	only once (1r	ot oooh)			
Use the terms below to identify a	Capillary	Cohesion	High Heat	Low Density	Surface	Universal			
	Action Chemical ı	eactions occu	Capacity Ir easily inside	of Ice e cells because	Tension reactants are	Solvent e in solution.	J		
- On hot summer days, ponds will not heat up too much for aquatic animals and plants; on cold nights, ponds will not become too cold for animals and plants to survive.									
- Plants can transport water from their roots to their leaves through the tiny tube-like cells in their stems.									
- Water bugs are able to "walk" on water without sinking below the surface.									
	- Water "sticks" to soil, the surfaces of plants, and other substances when it rains.								
	- Ponds and lakes freeze on their surface, preventing them from freezing solid and killing aquatic life.								
	- Water forms tight droplets.								