Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Pd: \_\_\_ Ast: \_\_\_\_\_

**PROPERTIES OF WATER NOTES**

Physical Science Honors

1. **Water has cohesive and adhesive properties.**
   1. Why does water form “polar molecules”?
   2. The polarity of water molecules causes them to form \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bonds, which results in:
      1. COHESION –
      2. ADHESION –
2. **Water expands upon freezing.**
   1. Why is solid water (ice) less dense than liquid water?
3. **Water is the “universal solvent”.**
   1. Why is the water we encounter rarely “pure”?
4. **Water has a very high specific heat capacity.**
   1. What is the result of water’s high specific heat?
   2. Why is this important for sustaining life on Earth?
5. **Water has a moderate boiling point and freezing point.**
   1. How does this make water unique among common substances on Earth?