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States of Matter/Phase Changes - Review

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| **Across**  **5.** what state of matter has particles that only vibrate  **6.** another word for gas is  **9.** an inward pull of water molecules creating a "skin" is called \_\_\_\_\_\_\_  **11.** If you slow water molecules down, they will most likely become \_\_\_\_\_\_  **14.** Energy that comes from movement is called \_\_\_\_\_\_\_ energy  **15.** no definite volume or shape  **16.** What has less energy, water or steam?  **19.** True or False: Condensation is the opposite of vaporization?  **22.** the two types of vaporization are evaporation and \_\_\_\_\_\_\_  **23.** cooling matter causes the particles to get \_\_\_\_\_\_\_\_\_\_\_ together  **25.** definite shape and definite volume  **26.** Which state of matter has the least kinetic energy?  **30.** which state of matter has the most kinetic energy?  **31.** a substance that flows is called  **32.** the phase change from a gas to a liquid is called  **33.** the release of heat is called  **34.** What has the most ordered particle arrangement, water or wood? | **Down**  **1.** a resistance to flowing is called  **2.** unlike evaporation, boiling occures \_\_\_\_\_\_\_\_\_\_\_\_ a liquid  **3.** what state of matter has particles that are close together but can slide past one another  **4.** If the sun heats up the surface of a puddle, the water will \_\_\_\_\_\_\_  **7.** when a substance goes from a liquid to a solid  **8.** if heat is absorbed by ice, what phase change occurs?  **10.** anything that takes up space and has mass is called \_\_\_\_\_\_\_\_  **12.** In general, as heat energy increases, temperature \_\_\_\_\_\_\_\_\_\_  **13.** the phase change from a liquid to a gas is called  **17.** honey has a \_\_\_\_\_\_\_\_ viscosity  **18.** the absorption of heat is called  **20.** when heat is added to molecules, they begin to speed up and \_\_\_\_\_\_\_\_\_  **21.** what state of matter has particles that are very far apart  **24.** definite volume but no definite shape  **27.** What process takes a solid to a gas?  **28.** What do the particles do when you heat them up?  **29.** heating matter causes the particles to move \_\_\_\_\_\_\_ |

   solid       gas       colder       sublimation       evaporate       water       speedup       increases       melting       solid       liquid       gas       vaporization       condensation       boiling       freezing       spreadout       endothermic       exothermic       gas       solid       liquid       kinetic       closer       faster       matter       fluid       surfacetension       viscosity       high       throughout       vapor       true       wood