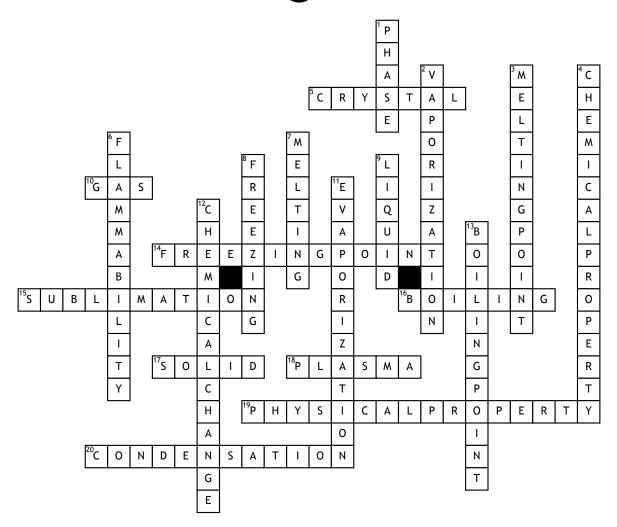
Name:	Date:	Period:
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## Phase Changes of Matter



## **Across**

- **5.** Solid where the atoms form a periodic arrangement
- **10.** Fluid, not set volume or shape, will fill container
- **14.** 32 degrees fahrenheit, 0 degrees celsius
- **15.** Chemical process where a solid turns into a gas without going through a liquid stage
- **16.** Rapid vaporization of a liquid
- **17.** In general, the most dense phase of matter is
- **18.** Ionized gas, a gas into which sufficient energy is provided to free electrons from atoms or molecules and to allow both species, ions and electrons, to coexist.

- **19.** Any characteristic of a material that can be observed or measured without changing the composition of the substances in the material
- **20.** Water that collects as droplets on a cold surface when humid air is in contact with it

## Down

- 1. physically distinctive form of matter, such as a solid, liquid, gas or plasma
- **2.** a phase transition from the liquid phase to vapor
- 3. When the temperature increases enough for the substance to turn from solid to liquid
- **4.** Property of matter only evident by transforming the substance
- **6.** the ability of a substance to burn or ignite, causing fire or combustion

- 7. make or become liquefied by heat
- **8.** phase transition in which a liquid turns into a solid when its temperature is lowered below its freezing point
- 9. Fluid, set volume but not shape
- 11. Process of a substance in a liquid state changing to a gaseous state due to an increase in temperature and/or pressure
- **12.** Any change in size, shape, or phase of matter in which the identity of a substance does not change, is considered
- **13.** An increase of temperature of liquids where bubbles form and heat up