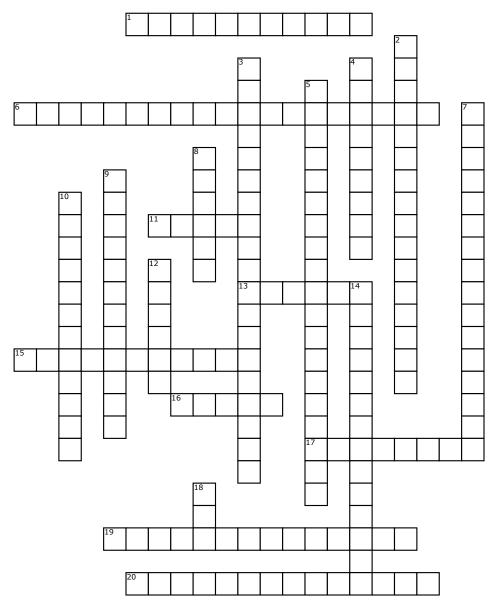
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The United States of Matter



Across

- 1. For an ideal gas, the pressure times the volume is equal to the number of moles times the constant R times the temperature
- **6.** The force per unit area exerted against a surface by the weight of the air above that surface
- **11.** Material that can flow and have no definite shape of their own
- **13.** The gas-like state of negatively charged electrons and positively charged ions
- **15.** The process of a substance in a liquid state changing to a gaseous state due to an increase in temperature and/or pressure
- **16.** A state of matter that has a fixed shape and a fixed volume
- 17. Force per unit area

- **19.** The forces of attraction that like particles exert on one another
- **20.** For a fixed amount of an ideal gas, the pressure times the volume, divided by the Kelvin temperature equals a constant

Down

- **2.** A property of all forms of matter that causes matter to expand, becoming less dense, when heated
- **3.** An object immersed in a fluid has an upward force on it that is equal to the weight of the fluid displaced by the object
- **4.** The extent to which a fluid resists a tendency to flow
- **5.** States that as the velocity of a fluid increases, the pressure exerted by that fluid decreases

- **7.** Any change in pressure applied at any point on a confined fluid is transferred undiminished throughout the fluid
- **8.** A state of matter that has no fixed shape but has a fixed volume
- **9.** The increase in pressure with increasing depth creates an upward force
- **10.** The change in phase of a gas upon the surface of a solid due to its loss of energy to that solid
- **12.** SI unit of pressure
- **14.** Attractive forces that act between particles of different substances
- **18.** A state of matter that has no fixed shape and no fixed volume