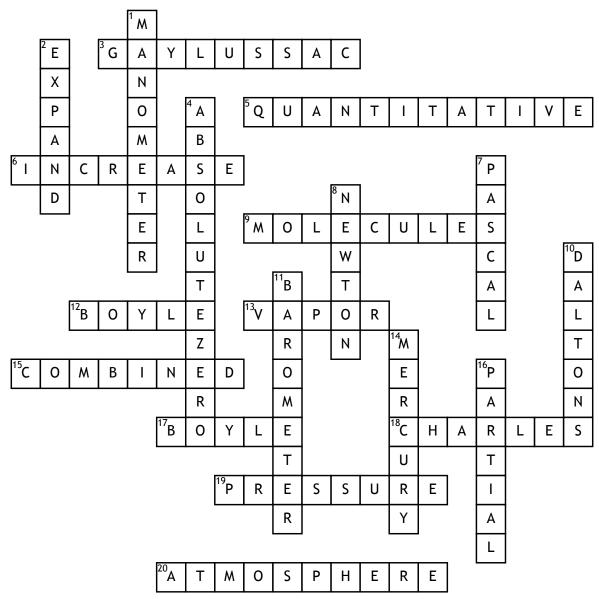
Name:	Date:
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## Gases and Gas Laws



## **Across**

- **3.** Who's law states that the pressure of a fixed mass of gas at constant volume varies directly with the Kelvin temperature?
- **5.** the relationship between volume and temperature is....
- **6.** According to Gay-Lussac, an increase in temperature will cause an \_\_\_\_ in pressure.
- 9. The pressure exerted by a gas depends on volume, temperature, and the amount of
- **12.** who discovered that doubling the pressure on a sample of gas at constant temperature reduces its volume by 1/2?
- **13.** water vapor and other gases exert a pressure known as \_\_\_\_ pressure

- **15.** The \_\_\_ gas law expresses the relationship between pressure, volume, and temperature of a fixed amount of gas
- **17.** What law is being expressed in PV=k?
- **18.** What law states that the volume of a fixed mass of gas at a constant pressure varies directly with the Kelvin temperature?
- **19.** The force per unit area on a surface
- **20.** 760 mm Hg is the definition of one of pressure.

## Dowr

 a device used to measure the pressure of an enclosed gas sample
if pressure is constant, gases will what when heated?

- **4.** The temperature -273.15°C is referred to as
- 7. the pressure exerted by a force of one newton acting on an area of one square meter
- 8. the force that will increase the speed of a 1 kg mass by 1 m per second each second that the force is applied
- **10.** law that states the total pressure of a gas mixture is the sum of the partial pressures of the common component gases
- 11. device used to measure atmospheric pressure
- **14.** the common unit of pressure is millimeters of \_\_\_\_\_.
- **16.** the pressure of each gas in a mixture is called the \_\_\_\_\_ pressure