Date_____

Gases

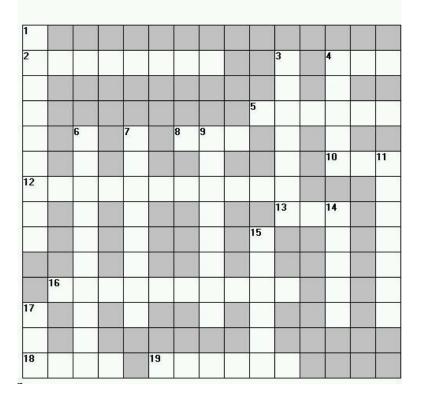
ACROSS

- 2 "Volumi uguali di gas diversi posti nelle stesse condizioni di pressione e di temperatura contengono lo stesso numero di molecole."
- 4 Number of grams in 3 moles of hydrogen gas.
- 5 0 mm Hg.
- 8 Number of covalent bonds in a molecule of hydrogen.
- **10** Pressure unit.
- **12** Thermoscopes were once used to measure this.
- **13** 0°C, 1 atm.
- 16 "I have already called attention to certain philosophical experimants that are in progress ... relating to vacuum, designed not just to make a vacuum but to make an instrument which will exhibit changes in the atmosphere, which is sometimes heavier and denser and at other times lighter and thinner."
- **18** Number of atoms in a molecule of cyclopropane.
- 19 It's measured in teaspoons, bushels, quarts and hogsheads

DOWN

- **1** Weather forecasting tool.
- 3 On August 27, 1783 at the Champs de Mars in Paris he filled a balloon with gas that had been made by pouring 225 kg of sulfuric acid over half a ton of scrapiron. After a flight that lasted about 45 minutes, his balloon descended into a field close to the little village of Gonesse, where the local farmers attacked it with pick axes and spades.
- 4 Self-contained underwater breathing apparatus.

- 6 Carbon monoxide can attach itself strongly to the oxygen- binding sites on this protein, making it unable to act as an oxygen-transporting molecule in blood.
- 7 It changes with altitude.
- **9** Has 5 valence electrons.
- **11** Liquid used by Boyle.
- 14 Disease treated with iron lung.
- **15** Gas with atoms that have completely filled outermost electron shells.
- 17 224 liters of helium contain this many moles of atoms at STP.



Gases

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