Science Vocabulary

Unit: **Safety / Scientific Method / Matter introduction**

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| **Terms** | **Definition** |
| *Science* |  |
| *Scientist* |  |
| *Safety* |  |
| *observation* |  |
| *data/evidence* |  |
| *fact* |  |
| *inference* |  |
| *Qualitative* |  |
| *Quantitative* |  |
| *conclusion* |  |
| *procedures* |  |
| *Scientific*  *Method* |  |
| *Hypothesis* |  |
| *Trials* |  |
| *Control* |  |
| *Variable* |  |
| *Independent Variable* |  |
| *Dependent Variable* |  |
| *constant* |  |
| *Matter* |  |
| *Molecules* |  |
| *Density* |  |
| *Heat* |  |
| *Kinetic Theory of Matter* |  |
| ***Thermal expansion*** |  |
| ***Convection*** |  |
| ***Radiation*** |  |
| ***Conduction*** |  |
| ***Mass*** |  |
| ***Volume*** |  |
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| **Terms** | **Definition** |
| *Science* | *Everything about the physical universe (the why)* |
| *Scientist* | *A person who discovers, explores, and studies science, and works to solves science questions.* |
| *Safety* | *Procedures to prevent harm or accidents* |
| *observation* | *Information gained from our 5 senses* |
| *data/evidence* | *Information from observation and measurement* |
| *fact* | *Information that is measurable, not an opinion!* |
| *inference* | *Conclusion based on past knowledge and observation* |
| *Qualitative* | *Data that describes something (color, smell, texture)* |
| *Quantitative* | *Data that can be counted using numbers, measurement* |
| *conclusion* | *Decision based on the analysis of collected data* |
| *procedures* | *Step by step directions* |
| *Scientific*  *Method* | *Process used to test a hypothesis (experiment)* |
| *Hypothesis* | *Testable Prediction, written if, then, because* |
| *Trials* | *The number of times you perform an experiment* |
| *Control* | *The group or substance used to compare your results* |
| *Variable* | *Things in an experiment that change* |
| *Independent Variable* | *Variables in an experiment that are changed by the scientist.* |
| *Dependent Variable* | *Variables in an experiment that are being measured.*  *These variables “depend” on the independent variable.* |
| *constant* | *Things in an experiment that must stay the same* |
| *Matter* | *Anything with mass (and takes up space)* |
| *Molecules* | *The building blocks of matter. Two or more atoms make a molecule.* |
| *Density* | *The amount of molecules in a defined space or volume* |
| *Heat* | *The movement of energy from high to low temperature* |
| *Kinetic Theory of Matter* | *Molecules in all substances are in constant motion (even solids)* |
| *Thermal Expansion* | *When you add heat to an object the molecules move faster spreading apart, making the object larger* |
| ***Convection*** | *Movement of heat in a liquid or gas (molecules flow with the heat)* |
| ***Radiation*** | *Movement of heat as an electromagnetic wave (sunlight)* |
| ***Conduction*** | *Movement of heat in solids* |
| ***Mass*** | *The mount of matter contained in something* |
| ***Volume*** | *The amount of space something takes up* |