

**Ouachita Parish  
Science Leap Review  
Short Version**

**SI A1**

What are the experimental steps of a scientific method and describe each step?

**SI A2**

List the prefixes in order, starting from milli- to kilo- and give the numerical value of each one?

**SI A3**

List the scenarios of non-safety practices.

**PS A1**

What ancient peoples used parts of their bodies as measurements units?

**PS A2**

What increments are used in measuring on each one of these sections?

- |                       |                           |
|-----------------------|---------------------------|
| a. Easy inches        | ans. $\frac{1}{2}$ inches |
| b. Medium inches      | ans. $\frac{1}{4}$ inch   |
| c. Hard inches        | ans. $\frac{1}{8}$ inch   |
| d. Super Brain inches | ans. $\frac{1}{16}$ inch  |

**PS B1**

What subatomic particle has a mass of 1 amu?

**PS C1**

Name the group 2 element in period 3.

**PS C2**

Which can be separated into simpler substances by a chemical change only?

**PS C3**

Describe two ways to increase the temperature of a gas?

**PS C4**

Choose three questions to answer from the Boyle's law activity.

**PS D1**

Which ion is formed when an acid is poured into water?

**PS D2**

1. Balance this equation:  
 $\text{Na} + \text{Cl}_2 \rightarrow \text{NaCl}$

**PS D3**

Describe the states of matter given.

**PS E1**

Which type of track would make the roller coaster ride more exciting?

**PS E2**

Which of Newton's Laws of Motion is related to momentum?

**PS F1**

Name the types of simple machines you see in the eggbeater in the photograph?

**PS F2**

According to Newton's 2<sup>nd</sup> Law, if the force acting on an object stays the same but the mass increases, acceleration \_\_\_\_\_.

**PS G1**

How does the speed of light change when the density of the material through which it travels changes?

**LS A1**

What organelles are found only in plant cells? In animal cells?

**LS A2**

Which organelle would you expect to be most numerous in a human muscle cell? Explain.

**LS A3**

This structure prevents plant cells from rupturing.

**LS C1**

All vertebrates are cold blooded –

**LS D1**

The study of the interactions of living organisms with one another and their physical environment is \_\_\_\_\_.

**LS D2**

Define succession —

**LS E2**

1. The synthesis and breakdown of ATP within the cells is controlled by
  - a. Active transport
  - b. The cell membrane
  - c. The nucleus
  - d. *Enzymes*

**LS F2**

**Answer will be your own perception.**

Find “Stroboscopic Artifacts”

Can you achieve a seemingly stationary gray disk?

**ES A1**

Describe the observed motion of the sun in the four seasons.

**SE A1**

Define carrying capacity.

**SE B1**

Define fossil fuel. List three examples.