

Repeatable

Problem

Inquiry and Process of Science Top 30 Vocabulary for K - 12

These 30 words are from the Alaska GLE's. All teachers K-12 need to intentionally build these words into the language they use when teaching science. Then, when the words come up in the questions on the Standards Based Assessment – students have familiarity with, and are better able to interpret the question that is being posed.

Ways to Use These Vocabulary Words:

- When lining up for class changes – hold up words / kids give an example – not just a definition
- Talk about each as concepts during science lessons
- Build a word wall with specific examples
- Inside – Outside Circle
- Folded Lines
- Quiz / Quiz / Trade
- Use the Teachers Guide for Kit Specific vocab.

This is NOT a Drill and Kill set of words.

An investigable question tends to be how or what, rather than why.

An experiment well enough designed, described, and controlled that it can be done over with the same results.

Global

Honesty

Local

Solution

In science, one must always report and record what you observe, not what you think it ought to be, or what someone else wants it to be, and do not erase your notes.

The entire world is part of a larger political, economic, environmental, and biological system.

Resolving or finding an answer to a problem.

Relating to a specific area (e.g., neighborhood, town, borough, region).

Design

Communicate

Predict

Explain

To sketch out details of a plan or system, check to see if it is working, and revise as necessary.

Clearly and accurately presenting and receiving ideas through written, graphic, or oral means.

To describe something clearly and with enough detail so another person can understand it.

To use what you already know to make a claim about what might happen.

Innovation

Observe

Inquiry

Measure

To examine carefully and pay close attention to details with many senses.

Inventing or introducing something new; a new way of doing things; either incremental or radical changes in thinking, products, processes, or organization.

To figure out the size, weight, or height of something with a unit of measure.

Any process with the purpose of adding to knowledge, resolving doubt or solving a problem.

Interpret

Infer

Classify

Evidence

To explain what you understand based on a set of facts.

To figure out based on currently available evidence.

Everything used to figure out whether or not something is accurate.

To describe and group things that are alike.

Experiment

Discovery

Investigate

Record

To find out about something unknown through observation or study.

A method of testing something to see what will happen and to gather data.

Information or data that is collected and preserved through writing or some other means.

To learn about something through a formal procedure of study.

Science

Tools

Model

Data

An item used in the performance of a task to extend human capabilities.

Collected pieces of information used to build knowledge.

To describe, identify, and experiment with natural phenomena to figure out how the world works.

Something that represents a real object or process, but is not exactly like it. (e.g., bigger, smaller, simpler)

Creativity

Curiosity

Wonder

Variable

The drive to know about new things.

To use your mind to produce something new and different or to make new connections.

A part of an experiment that changes.

Amazed admiration or awe, especially at something very beautiful, new, or unexpected.