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Introduction

This reference guide is meant to be a resource for you and your grammar stage student as they study science, no matter what program you choose to use. However, this book does contain all of the vocabulary terms and memory work that are scheduled in the four grammar stage programs from Elemental Science. If you do not use one of our grammar stage programs, you can certainly use this reference guide with any elementary student studying science alongside of whatever program you have chosen.

How to use the glossary

This reference guide is meant for the students to use as they complete their vocabulary assignments. They can either copy the definitions found in this book or they can read the definitions and then write it down in their own words.

The following abbreviations are used in the glossary section so that you can easily identify which discipline the words apply to:

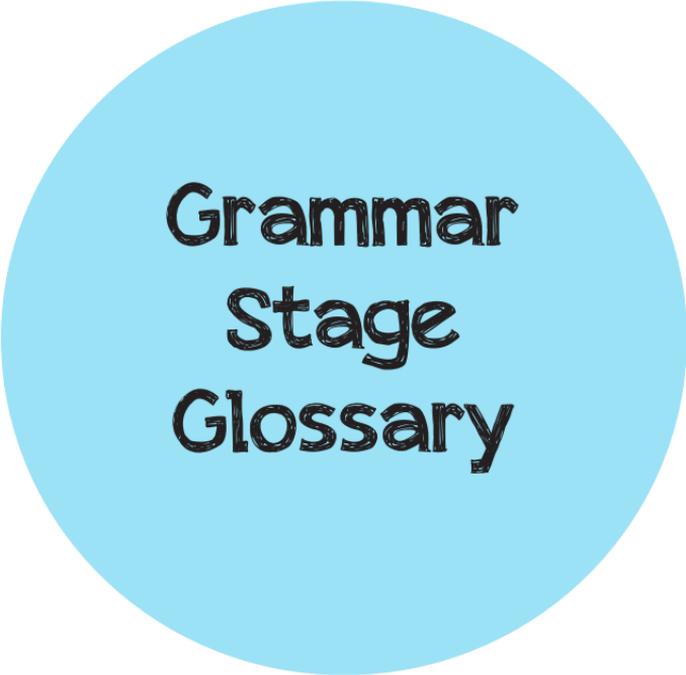
- B = Biology
- E = Earth Science and Astronomy

- C = Chemistry
- P = Physics

The words that apply to different more than one discipline are noted. The abbreviations are also included to give you an idea of what to cover as you study the different areas of science.

How to use the memory work

The students can also use this book as they work on memorizing the memory work selections that they are assigned. They can either read the selection daily or copy the selection down and illustrate it on another sheet of paper.



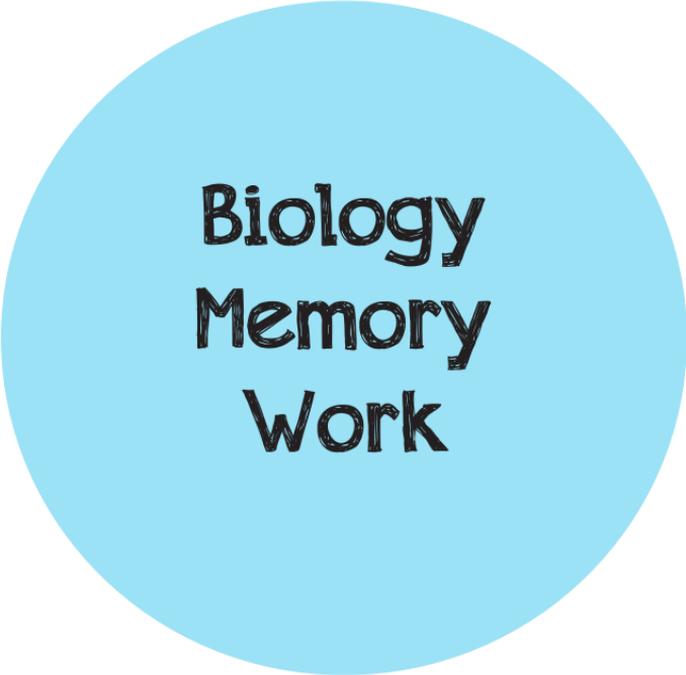
Grammar Stage Glossary

A

- **Acceleration** – A change in the speed or direction of an object. (P)
- **Acid** – A chemical that dissolves in water and can neutralize a base. Weak acids taste sour. (C)
- **Air** – A mixture of gases that form a protective layer around the Earth. (C)
- **Alloy** – A mixture of two or more metals or a metal and a non-metal. (C)
- **Alveoli** – Tiny air bags found in your lungs. (B)
- **Amphibian** – A cold-blooded, smooth-skinned vertebrate, such as a frog or salamander. (B)
- **Asteroid** – A rock orbiting the Sun. (E)
- **Astronaut** – A person who travels into space. (E)
- **Atmosphere** – A layer of gas that surrounds a planet. (E)
- **Atomic Mass** – The average mass number of the atoms in a sample of an element. (C)
- **Atomic Number** – The number of protons in the nucleus of an atom. (C)

B

- **Bacteria** – A group of microscopic organisms that can cause diseases. (B)
- **Balance** – The point at which all the forces acting on an object cancel each other out. (P)
- **Base** – A chemical that dissolves in water and can neutralize an acid. Weak bases taste bitter. (C)
- **Battery** – A source of stored electrical energy. (P)
- **Binary Code** – A way of representing information using only 1's and 0's. (P)
- **Biome** – A community of living things, both plants and animals, that are affected by the climatic conditions of the region in which they are found. (E)
- **Bird** – A warm-blooded, egg-laying, feathered vertebrate; it also has wings. (B)
- **Blood vessel** – A tube that carries blood through the body. (B)
- **Bud** – A swelling on a plant stem containing tiny flower parts ready to burst into a bloom. (B)
- **Buoyancy** – The way an object sinks or floats in either air or water. (P)



**Biology
Memory
Work**

Animal Memory Work

Characteristics of Mammals

Mammals love to breathe air
They all have fur or hair
Their blood is warm, almost hot
Their babies drink milk a lot!

Characteristics of Birds

Birds have wings
Most like to sing
They make beautiful nests
Where they lay eggs and rest

Characteristics of Reptiles

Reptiles like meat
Their blood is cold - sweet!
They have scaly, watertight skin
And in their nests their eggs lay in

Characteristics of Amphibians

Amphibians can live on water or land
They lay eggs and have cold blood - grand!

Characteristics of Fish

Fish swim in the sea with the otter
Using their gills to breathe in the water