

# 8th Grade Science Summer Work

For your summer science work, you will be working with some vocabulary that will help you with your learning this year. For each of the words, you will do the following:

1. **Break down the word.** Is there a root word embedded in the term? What does that root word mean. Is there a prefix or a suffix? What do those mean and how do they affect the meaning of the word.
  - a. Use the first page of this link to help you  
<https://bullrunms.pwcs.edu/common/pages/DisplayFile.aspx?itemId=5541271>
  - b. This is another resource <https://www.biologyjunction.com/scientific-root-words-prefixes-and-suffixes/>
  - c. If you cannot find what you are looking for in either of those, you will need to do some research of your own on the internet!
  
2. **Define the word in simple terms.** Pretend you have to teach this word to a small child. Explain it as simply as possible.
  - a. When you type the word into Google use the phrase “for kids” after so that you do not get a crazy college level definition
  - b. Use this visual dictionary site (or any other) to help you visualize what the word means <http://www.visualdictionaryonline.com/science.php>
  - c. If you are really struggling, go to YouTube and look up the word adding “for kids”. See if a video helps you understand the definition better.
  
3. **Provide a picture that represents what the word means *AND* a sentence that describes the picture.**
  - a. This can be hand drawn or copy and pasted.
  - b. Do not forget to include a sentence that describes the picture and how it represents the word
  - c. If there are parts to the picture that need to be identified, please label those or include them in your description sentence.

4. **Explain how this word connects to science.** In other words, why do we in the science community care about this word and what it means?
- a. Things to think about in order to answer that question...
    - i. Does it have an effect on living things? How so?
    - ii. Does it have an effect on the Earth itself, space, the universe?
    - iii. Is it harmful, beneficial? How so?
    - iv. Does it have an effect on your life personally or do you have experience with it? How so?
    - v. What field of science does it have to do with?
    - vi. Is it necessary? To what? How?
    - vii. How does it connect to the world around us?
  - b. *\*\*\*\*You are NOT answering all these questions, you are just using them to guide your thinking to help you develop your answer.*
5. **Put your answers into the Graphic organizers provided for each word starting on the next page.**

**This is due on the first day of school.  
Do not wait until the last minute to work  
on it. There are 12 words.**

*Graphic organizers start on the next page. The word is in bold at the top of each page.*

# *Biodiversity*

Roots/ prefixes/ suffixes

Simple definition

Picture and description

Connection to science

# *Reproduction*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

# *Genotype*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

# *Phenotype*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

# *Planetary Differentiation*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

## *Convection Currents*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

## *Tectonic plates*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

## *Destructive force*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

# *Superposition*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

# *Force*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

# *Inertia*

Roots/prefixes/suffixes

Simple definition

Picture and description

Connection to science

