

## Pre-IB Biology Summer Assignment

**Directions:** Create notecards of the following common prefixes and suffixes. They will be due at the end of the first week we start school and then you will have a quiz on them at the end of the second week along with Unit 1. I recommend getting them done early and start reviewing them as it will make your year easier in Biology. See the example below.

Ana-

Indicates upward direction,  
synthesis or build up, repetition,  
excess, or separation.

**Front of Card**

**Back of Card**

### Common Prefixes and Suffixes in Science

#### Common Prefixes

(Ana-): indicates upward direction, synthesis or buildup, repetition, excess or separation.

(Angio-): signifies a type of receptacles such as a vessel or shell.

(Arthr- or Arthro-): refers to a joint or a junction that separates different parts.

(Auto-): identifies something as belonging to oneself, occurring within or occurring spontaneously.

(Chrom- or Chromo-): denotes color or pigmentation.

(Cyto- or Cyte-): regarding or relating to a cell.

(Dactyl-, -dactyl): refers to a digit or tactile appendages such as a finger or toe.

(Diplo-): means double, paired or twofold.

(Ect- or Ecto-): means outer or external.

(End- or Endo-): means inner or internal.

(Epi-): indicates a position that is above, on or near a surface.

(Erythr- or Erythro-): means red or reddish in color.

(Ex- or Exo-): means external, out of or away from.

(Eu-): means genuine, true, well or good.

(Gam-, Gamo or -gamy): refers to fertilization, sexual reproduction or marriage.

(Glyco- or Gluco-): pertains to a sugar or a sugar derivative.

(Haplo-): means single or simple.

(Hem-, Hemo- or Hemato-): denoting blood or blood components (plasma and blood cells).

(Heter- or Hetero-): means unlike, different or other.

(Homo-): means same.

(Neur- or Neuro-): referring to nerves or the nervous system.

(Phag- or Phago-): pertaining to eating, swallowing or consuming.

(Poly-): means many or excessive.

(Proto-): means primary or primitive.

(Staphyl- or Staphylo-): referring to a cluster or bunch.

(Tel- or Telo-): denoting an end, extremity or final phase.

(Zo- or Zoo-): pertaining to an animal or animal life.

### **Common Suffixes**

(-ase): denoting an enzyme. In enzyme naming, this suffix is added to the end of the substrate name.

(-derm or -dermis): referring to tissue or skin.

(-emia or -aemia): referring to a condition of the blood or the presence of a substance in the blood.

(-genic): means giving rise to, producing or forming.

(-kinesis or -kinesia): indicating activity or movement.

(-lysis): referring to degradation, decomposition, bursting or releasing.

(-oma): indicating an abnormal growth or tumor.

(-osis or -otic): indicating a disease or abnormal production of a substance.

(-phage or -phagia): the act of eating or consuming.

(-phile or -philic): having an affinity for or strong attraction to something specific.

(-plasm or -plasma): referring to tissue or a living substance.

(-stasis): indicating the maintenance of a constant state.

(-troph or -trophy): pertaining to nourishment or a method of nutrient acquisition.

**Pre-IB Biology Student Supply List (Required):**

- Highlighters (multiple colors)
- Dry erase markers (thin tip)
- Pens and Pencils
- 1½ Inch Binder
- Page Dividers (10)
- Loose Leaf Paper (you will **NOT** be using a notebook!!!!)
- Notecards

**Classroom Supplies (Optional and much appreciated):**

- Paper Towels
- Tissues
- Hand Sanitizer