

AP Biology Summer Assignment

ASSIGNMENT #2: Biological Scavenger Hunt

Collect **40** of the biological items from the following Specimen List. This assignment is worth _____ **points**, however, you may want to collect MORE to earn extra points or to cover inaccurate entries.

**You must have examples from each category below.

To show that you've seen the items, you must submit either:

- A photograph of the object OR
- A hand-drawn image of the object in its found location OR
- A newspaper or magazine article that has that item as its primary subject (**must** include a correct citation for the article and the article must have been written during this summer- May through August) OR
- An internet article/image of the organism (limited to 5 submissions **maximum**)

***Every organism submitted must be labeled with (1) specimen list title (ex: Adaptation of an animal) (2) properly-formatted scientific name and (3) location of the organism.** For example, a dog in your neighborhood would be drawn or photographed and labeled as *Canis familiaris*, 45 Rye Rd., MyTown, FL.

Grade breakdown for Scavenger Hunt: 1 point for each specimen, 1 point for each scientific name, and 1 point for location = 120 points

CAUTIONS: 1. Never touch plants or animals with exposed fingers! Avoid touching the organisms but if you must, use gloves and/or forceps. 2. Remember, we don't want to deplete the environment. Don't kill the organisms! Photograph or draw them in their native habitat.

The submitted portfolio can be in a book form or a PowerPoint presentation.

Specimen List

Chemistry

- carbohydrate - fibrous
- cellulose
- chitin
- covalent
- disaccharide
- entropy
- enzyme
- endergonic reaction
- exergonic reaction
- fermentation
- glycogen
- ionic compound
- keratin (Fibrous Protein)
- lipid used for energy storage
- protein - globular
- saturated fatty acid
- unsaturated fatty acid

Environment

- autotroph
- biological magnification
- K-strategist
- littoral zone organism
- mutualism
- niche
- parasite
- r-strategist
- Symbiotic relationship

Evolution

- Analogous structures
- Homologous Structures
- Batesian mimicry

Classification

- archaeobacteria

- basidiomycete
- bryophyte
- chlorophyta
- commensalism
- deuterostome
- eubacteria
- eukaryote
- lichen
- mycelium (
- mycorrhizae
- prokaryote
- protostome
- unicellular organism

Plants

- abscisic acid
- adaptation of a plant
- angiosperm
- anther & filament of stamen
- auxin producing area of a plant
- C4 plant
- Calvin cycle
- cambium
- conifer leaf
- cuticle layer of a plant
- deciduous leaf
- dicot plant with flower & leaf
- endosperm
- ethylene
- flower ovary
- frond
- fruit - dry with seed
- fruit - fleshy with seed
- gametophyte
- gibberellins
- gymnosperm cone
- leaf - gymnosperm

- lignin
- long-day plant
- meristem
- modified leaf of a plant
- modified root of a plant
- modified stem of a plant
- monocot plant with flower & leaf
- parenchyma cells
- phloem
- pine cone - female
- plant pigment other than chlorophyll
- pollen
- pteridophyte
- rhizome
- spore
- sporophyte
- stem - herbaceous
- stem - woody
- stigma & style of carpel
- tendril of a plant
- thorn of a plant
- turgor pressure loss in plant
- vascular plant tissue
- xerophyte
- zylem

Animals

- adaptation of an animal
- amniotic egg
- animal that has a segmented body
- annelid
- arthropod
- nematode
- nymph stage of an insect
- cnidarian
- coelomate

- echinoderm
- ectotherm
- endotherm
- exoskeleton
- gastropod
- hermaphrodite
- insect
- lepidoptera
- platyhelminthes
- pollinator
- porifera
- radial symmetry
- scale from animal with two-chambered heart

Animal Behavior

- Innate behavior
- Imprinting behavior
- Kinesis
- Taxis

Anatomy

- actin
- amylase
- connective tissue
- epithelial tissue
- muscle fiber - striated
- myosin

Genetics

- diploid chromosome number
- genetically modified organism
- haploid chromosome number
- karyotype

