# Living Environment Exam Study Guide

#### Cells

- What are living things made of?
  - Explain components of scientific theory of cells
- What are the building blocks of organisms?
  - Identify atoms, molecules, lipids, proteins, carbohydrates, nucleic acids, and what each of them do
- What are the different parts of the cell?
  - Describe the differences between plant and animal cells
  - o What are the organisties in each type of cell?
- How are living things classified?
  - Cells, tissues, organs, organ systems
- How do cells get energy and maintain homeostasis?
  - Understand processes like homeostasis, photosynthesis, cellular respiration, mitosis, diffusion, passive transport, active transport
  - How do plant cells make food?
  - How do cells get energy from food?

#### Reproduction and Heredity

- How do cells divide for asexual reproduction?
  - o Identify mitosis
  - Know stages of mitosis (prophase, metaphase, anaphase, telophase, cytokinesis)
- How do cells divide for sexual reproduction?
  - Idlentify melosis
  - Know differences between mitosis and meiosis
- How are traits inherited?
  - o Who first began investing inherited traits?
  - Define genes, alieles
  - Understand that genotype (ie RR) is the gene you are acquiring and phenotype is the physical characteristic that goes with the gene (ie: Red hair)

# **Living Environment Study Guide**

**G** Orfield

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