

LITERACY SCIENCE

- [LESSON 14.4 Notes: How does oxygen get into the blood?](#)
- [Worksheet: Vocabulary Matching Practicing](#)
- [Worksheet: Mediated Writing](#)
- [Worksheet: Fill in the Blank](#)

INTRODUCTION TO BIOLOGY

Topic: Respiratory system

Standard- HS-LS1-2. Develop and use a model to illustrate the key functions of animal body systems, including (a) food digestion, nutrient uptake, and transport through the body; (b) exchange of oxygen and carbon dioxide; (c) removal of wastes; and (d) regulation of body processes

[Respiratory system webquest questions](#)

[Respiratory vocab-quizlet](#)

[Respiratory Online game](#)

[Respiratory online questions/games](#)

[Respiratory word scramble](#)

[Respiratory quiz brainpop](#)

BIOLOGY

Topic- DNA, RNA and Proteins – Part 2

Standard- HS-LS1-1. Construct a model of transcription and translation to explain the roles of DNA and RNA that code for proteins that regulate and carry out essential functions of life.

Transcription and Translation Lesson

Topic: Mendelian inheritance patterns

Standard: HS-LS3-3. Apply concepts of probability to represent possible genotype and phenotype combinations in offspring caused by different types of Mendelian inheritance patterns.

Two week lesson:

* Week 1: We will delve into **Mendel's Theory of Heredity**;

* Week 2: we will

- use the **Punnett Squares** and **probabilities** to predict the results of monohybrid and dihybrid genetic crosses;

-apply a **TEST Cross** to determine the genotype of an organism with a dominant phenotype.

- analyze a simple **pedigree**.

Part 1 Mendel's Theory of Heredity

- a. [Watch an animated lecture video about Mendel and the Gene.](#)
- b. [Read this text about Mendel's Theory of Heredity and answer the questions in complete sentences.](#)
- c. [Review Mendel's hypothesis of dominance.](#)
- d. [Interactive activity: Cat's Genes](#)

In this game, you will have to breed cats according to their genotype and phenotype to produce cats with the desired traits. Once given the criteria you have to mate a male and female with dominant and recessive traits to get the desired offspring. After fulfilling each customer's order, you will have to answer a question about genotypes, phenotypes, alleles, and heredity. Complete all cat requests to win.

MCAS BIO REVIEW

Topic- DNA, RNA and Proteins – Part 2

Standard- HS-LS1-1. Construct a model of transcription and translation to explain the roles of DNA and RNA that code for proteins that regulate and carry out essential functions of life.

Transcription and Translation Lesson

CHEMISTRY

PS1. Matter and Its Interactions: HS-PS1-1. & HS-PS1-2.

- [LESSON Notes: Where did the elements come from?](#)
- [Worksheet: Guided Reading Questions and Concept Review](#)
- [Worksheet: Balancing Nuclear Equations Practice Exercises](#)
- [Worksheet: Half-life Practice Exercises](#)