Anoka-Hennepin Secondary Curriculum Unit Plan

Department:	Science	Course:	Science 7 (Life Science)	Unit 2 Title:	Diversity	Grade Level(s):	7th Grade
Assessed Trimester:	Trimester 1	Pacing:	15-20 Days	Date Created:		Last Revision Date:	6.24.14

Course Understandings: *Students will understand that:*
- All living things share common characteristics and needs, and they meet these by interacting with the environment.
- All living things are composed of cells, and multicellular organisms have specialized cells, tissues, organs and organ systems that work together to maintain internal balance (homeostasis).

DESIRED RESULTS (Stage 1) - WHAT WE WANT STUDENT TO KNOW AND BE ABLE TO DO?

Established Goals

- **Standard:** Structure and Function in Living Systems
  All organisms are composed of one or more cells which carry on the many functions needed to sustain life.
  Benchmark:
  7.4.1.2.1: Recognize that cells carry out life functions, and that these functions are carried out in a similar way in all organisms, including animals, plants, fungi, bacteria and protists.

Transfer

Students will be able to independently use their learning to: (product, high order reasoning)
- To determine whether something is alive or not. 7.4.1.2.1
- To understand where humans fit within the kingdoms. 7.4.1.2.1
- To understand the language of science allows us to communicate effectively and efficiently.
- Understand how diversity provides a series of which improve our living world.

Meaning

Unit Understanding(s):

Students will understand that:
- All living things share specific characteristics and needs. 7.4.1.2.1
- Organisms are grouped into kingdoms based how they obtain and use energy. 7.4.1.2.1
- Scientific language allows us to communicate effectively and efficiently in science.

Essential Question(s):

Students will keep considering:
- What is life?
- Is it alive? Soil? Virus? Water? Yeast?

Acquisition

Knowledge - Students will:
- Recognize how organisms in the animal, plant, fungus, bacteria, and protist kingdoms obtain energy by making their own food or relying on other organisms. 7.4.1.2.1
- I can identify and define the characteristics of life. 7.4.1.2.1
- I can identify the basic needs of all living things. 7.4.1.2.1
- I can list and define the 6 kingdoms into which organisms are grouped based on how they obtain and use energy. 7.4.1.2.1
- I can use the greek and latin root words to understand and apply new vocabulary.

Reasoning - Students will:
- Make predictions about new vocabulary based on my knowledge of greek and latin root words.

Skills - Students will:
- Compare and contrast how life functions, such as obtaining and using energy, are carried out in animals, plants, fungus, bacteria, archaea, and protists. 7.4.1.2.1
- Use strategies to decode words in science.

Common Misunderstandings	**Essential new vocabulary**
● Plants, fungi, eggs and seeds are not living. ● Viruses, water, and soil are living. ● Humans are not animals. ● Fungi are plants.	● Kingdom ● Animals ● Plants ● Fungi ● Protists ● Bacteria ● Archaea ● Unicellular ● Multicellular ● Prokaryote ● Eukaryote ● Heterotroph ● Autotroph ● Cell ● Organism