

LINCOLN PUBLIC SCHOOLS
Science Learning Expectations: Grade 6

Strand:

Life Science

**Mass Standard
LS1**

Students will classify organisms into the currently recognized kingdoms according to characteristics that they share. Students will be familiar with organisms from each kingdom

See also: LS2, LS3 and LS4 and Inquiry Standards

Big Ideas

- All living things are composed of cells that are the fundamental building blocks of life.
- Plant and animal cells have similar and different characteristics.
- Living things are classified by their characteristics and relatedness to other living things.

Key Outcomes

- Students will demonstrate an understanding that **cell structure is used to determine an organism's kingdom** by identifying the observable characteristics of sample organisms and classifying them into the appropriate kingdom with the use of a dichotomous key.

Essential Knowledge and Skills

Students will be able to:

- Living things are classified into 6 kingdoms according to certain characteristics.
- List and describe the six kingdoms of life summarizing their cell structure, level of complexity, how they obtain energy, and how they reproduce.
- Recognize that within cells, many of the basic functions of organisms (e.g., extracting energy from food and getting rid of waste) are carried out.
- Describe the way in which cells function is similar in all living organisms.