



Mount Horeb Area School District Essential Learning Outcomes

Grade: 4 Course: Science		
Course Overview: In fourth grade, students will learn about the structures and functions of animals while exploring their adaptations. Students will study light waves, sound waves, and the many aspects of these waves. They will also understand how light reflects and allows the eye to observe objects. Students will discover what energy is and the different forms it takes. They will learn that energy is present whenever there are moving objects, sound, light, or heat. Finally, students will explore how the Earth is shaped by water and other factors. They will study patterns about the Earth and the Earth's natural processes.		
Essential Learning Outcomes for Subject or Course	Standard(s) Addressed	Assessment Method
Students will be able to model and explain how animals see during the day and at night.	4-LS1-1, 4-LS1-2	Final assessment
Students will be able to model and give an example of how animals use their body structures to function/live in their environment.	4-LS1-1, 4-LS1-2	Bird beak experiment, final assessment
Students will be able to model and label the parts of a sound wave.	4-PS4-1	Final assessment, labeling a diagram
Students will be able to create a model showing how light waves travel into a human eye.	4-PS4-2	Final assessment
Students will be able to model and explain how energy is transferred.	4-PS3-2	Final assessment, describe the process of energy transfer
Students will be able to construct an explanation that energy takes different forms.	4-PS3-2, 4-PS3-3	Experiment activity, final assessment, Energy Robot Project
Students will be able to model how the Earth is shaped by water, erosion, and other factors.	4-ESS2-1	Sugar cube experiment, final assessment
Students will be able to use evidence to construct an argument to show that there are patterns in the Earth, and the Earth's natural processes.	4-ESS1-1	Weathering rocks processing activity