Blackhawk School District

CURRICULUM

Course Title: Grade Level(s): Length of Period: Faculty Author(s): Date: Science Fourth 40 minutes per day per quarter taught Mindy Furda and Brady Okon January 2014

SCIENCE MISSION:

The goal of science education is to develop within students an understanding of the world around us by fostering curiosity, developing inquiry skills, and creating an excitement for learning science.

COURSE DESCRIPTION: In their fourth grade classrooms, the students will study science using hands-on inquiry based kits covering the topics of Variables, Magnetism and Electricity, and Water. Additionally, the students will study the solar systems and wetlands in conjunction with the lab science class.

4th Grade Science Curriculum Overview



The following outline provides a general overview of the course content, not a chronological timetable. The days denoted for each area provide an idea for the overall time spent working with a given topic throughout the school year.

Course Outline 2 nd Quarter	PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
Variables FOSS Kit	S4.A.1.1.2: Identify and describe examples of	12-15		Teacher created
	common technological changes past to present in	days		
Investigation 1 – Swingers	the community (e.g., energy production,			
	transportation, communications, agriculture,			
Investigation 3 – Plane	packaging materials) that have either positive or	12-15		Video series
Sense	negative impacts on society or the environment.	days		
	Identify and explain the application of scientific,			PDE SAS
Tessellations	environmental, or technological knowledge to			
	possible solutions to problems.	12-15		
		days		
	Recognize and describe change in natural or			
How It's Made	human-made systems and the possible effects of			
	those changes.			
	Apply skills passesson to conduct an avpariment or			
	design a solution to solve a problem			
	design a solution to solve a problem.			
	Identify and describe different types of force and			
	motion resulting from these forces or the effect of			
	the interaction between force and motion			
	Identify systems and describe relationships among			
	parts of a familiar system.			
	Identify the types and uses of Earth's resources.			

Course Outline 3 rd Quarter	PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
Investigation 1 – Water	Use models to illustrate simple concepts and	12-15		Water Foss Kit
Observations	compare the models to what they represent	days		
Investigation 2 – Water	Identify the types and uses of Earth's resources.			
Vapor		12-15		
	Identify and describe living and nonliving things in	days		
Wetlands	the environment and their interaction.			
Fresh Water				
	Describe, explain, and predict change in natural or	12-15		
Salt Water	human-made systems and the possible effects of those changes on the environment.	days		
Space Unit				
	Describe Earth's different sources of water or			
	describe changes in the form of water.	$\mathbf{b}^{\mathbf{v}}$		
	Identify and make observations about patterns that			
	regularly occur and reoccur in nature.			
	Describe Earth's relationship to the Sun and the Moon.			