Blackhawk School District

CURRICULUM

Course Title: Science Grade Level(s): Kindergarten

Length of Course: 10 lessons throughout the year Faculty Author(s): Sue Badzik/Dawn Kinger

Date: February 2014

MISSION STATEMENT:

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:

Science in kindergarten will be, for the most part, taught through the realm of reading. Children's literature in both the reading series and the RTS lessons will be used. The following lessons are designed to create a science foundation for kindergarten students through the use of effective read alouds and common lessons. The common lessons are focused around the seasons, plant growth, animal and their habitats and land. Daily discussions and lessons will provide teachable moments and opportunities to discuss other important aspects of science.

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

Approx. Assessment **Course Outline PA Core Standards Suggested Resources** Pacing **Options** 3.1.K.C2 (RTS) Round and September Round the Seasons Go Describe changes animals and plants undergo **Seasons** by Rozanne Williams throughout the seasons. **Apples** (Learning to Read Books) Observe, compare, and Johnny Appleseed describe the stages of life /Apple Lifecycle cycles for plants and/or Teacher choice readanimals. aloud **Essential Questions:** What weather happens during each of the four seasons? How does an apple grow?

Course Outline	PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
October	3.1.1.C3:			Teacher choice read-
				aloud
Leaves	CONSTANCY AND CHANGE			(RTS) – Teacher choice
D				read-aloud
Pumpkins	Describe changes that occur as a result of habitat.			
Observe, compare, and				
describe stages of life cycles				
for plants and/or animals.				
Describe changes animals				
and plants undergo				
throughout the seasons.				
Essential Questions:				
Why do leaves				
change colors?				
How does a pumpkin				
grow?				

PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
3.1.K.B1			(RTS) Read-aloud by
Observe and describe how young animals resemble their parents and other animals of the same kind.			Dona Rice (<i>Time Life</i> Books)
			- Harcourt Series
	3.1.K.B1 Observe and describe how young animals resemble	PA Core Standards Pacing 3.1.K.B1 Observe and describe how young animals resemble	PA Core Standards Pacing Options 3.1.K.B1 Observe and describe how young animals resemble

Course Outline	PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
December	3.1.K.A9: Distinguish between scientific fact and opinion.			(RTS) Who Lives Here? by Rozanne Williams
Hibernation	Ask questions about objects, organisms, and events.			(Learning to Read Books)
Identify the similarities and		_		DOOKS
differences of living and non-				Bear Snores On – ELA
living things. Observe,		_		Big Book
compare, and describe				
stages of life cycles for plants				
and/or animals. Observe				
and describe structures and				
behaviors of a variety of				
common animals.				
Essential Questions:				
Where can animals				
live in the winter?				

Course Outline	PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
Weather Storms Describe changes that occur as a result of climate. Record daily weather conditions using simple charts and graphs. Identify seasonal changes in the environment. Distinguish between types of precipitation. Essential Questions:	3.2.K.B6: ENERGY Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow.			What Will the Weather Be Like Today? — ELA Big Book (RTS) A Storm Comes Up — ELA Read-Aloud

Course Outline	PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
February	3.2.K.A5:		(Can, have, are)	(RTS) Investigating
Water	CONSTANCY AND CHANGE		graphic organizer	Water (Delta Science Readers)
Groundhogs	Recognize that everything is made of matter.			Teacher choice – read-aloud
Describe the way matter can				
change. Describe changes		_		
animals and plants undergo				
throughout the seasons.				
Recognize that everything is				
made of matter.				
Essential Questions:				
How can water				
change?				
What can				
groundhogs do?				

Course Outline	PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
March/April	3.2.K.B6:			(RTS) From Seed to Plant (Delta Science
Plant Cycle Describe changes animals and plants undergo throughout the seasons. Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow. Observe, compare, and describe stages of life cycles for plants and/or animals. Essential Questions: How does a plant grow?	Recognize that light from the sun is an important source of energy for living and nonliving systems and some source of energy is needed for all organisms to stay alive and grow.			Readers)

Course Outline	PA Core Standards	Approx. Pacing	Assessment Options	Suggested Resources
May/June	3.1.K.C2			(RTS) Teacher choice
Rain Forest Animals	Describe changes animals and plants undergo throughout the seasons.			read-aloud Red-Eyed Tree Frog —
Ocean Life				ELA
Describe changes animals and plants undergo throughout the seasons. Observe and describe structures and behaviors of a variety of common animals. Essential Questions: What can red-eyed tree frogs do? (Can, have, are) graphic organizers What kinds of animals live in the rain forest? What kinds of animals live in oceans?				