

# 3rd Grade Science Curriculum Mapping and Alignment to State Standards 2008/2009

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## First Week

Assess and Review

Illinois Standards

## September – Types of Plants

Unit A/Chapter 1

Lessons # 1-4

Concepts/Skills: Parts of a plant, simple plants, seeds and germination, photosynthesis and chlorophyll.

Hands-on Experiment/Demonstration: Needs of Plants/Parts of a Simple Plant/Sprouting Plants/Food Factories.

Project/Activity: Labeling Plants on *KidPix*, Take-Home Book: Plants as Medicine- Create Your Own Medicinal Plant.

Videos: *Magic School Bus in the Rain Forest*; *Magic School Bus Goes to Seed*

Other: Plant lima beans

Vocabulary: root, stem, leaf, cell, simple plant, seed, germinate, seedling, photosynthesis, chlorophyll.

12a

## October – Types of Animals

### CogAt Testing

Unit A/ Chapter 2

Lessons # 1-5

Concepts/Skills: Animals inherit traits, traits of mammals, birds, amphibians fish, and lizards, animal behavior and instinct, endangered animals and extinction.

Hands-on Experiment/Demonstration: Animals Homes/Fur Helps Animals/From Egg to Frog/How Animals Hide/Endangered Animals

Project/Activity: Animal Reports, Take-Home Book: Marsupials

Videos: *Really Wild Animals: Polar Prowl*; *Magic School Bus: Animals*

Other:

Vocabulary: inherit, trait, mammal, bird, amphibian, gills, fish, scales, reptile.

12a

## November – Where Living Things are Found

Unit B/Chapter 1

Lessons #1-5

12b

Concepts/Skills: Different types of ecosystems- forests, desert, grassland, water.  
Hands-on Experiment/Demonstration: Observing an Environment/Variety in Forests/Make a Desert Ecosystem/Observing Grass Roots/Make a Freshwater Ecosystem.

Project/Activity: Ecosystem Diorama, *KidPix Ecosystems*, Take-Home Book: Bogs.

Videos: *Ecosystems for Children- All About Forest Ecosystems/All About Water Ecosystems/Really Wild Animals: Wonders Down Under & Monkey Business and other Family Fun/ Bill Nye: Reptile, Insects and Leapin' Lizards.*

Other:

Vocabulary: environment, ecosystem, population, community, habitat, forest, deciduous forest, tropical rain forest, coastal forest, coniferous forest, desert, prairie, tallgrass, salt water, fresh water.

## **December – Living Things Depend on One Another**

12b

Unit B/Chapter 2

Lessons #1-3

Concepts/Skills: Animals interaction- producers, consumers, decomposers; the food chain; food webs- predator prey.

Hands-on Experiment/Demonstration: Animals Teeth/Make a Food-Chain Model/Make a Food Web.

Project/Activity: Food Pyramid in *Kidspiration*; Take-Home Book: Funghi

Video: *Really Wild Animals: Swinging Safari* (Food Chain)

Other: *Magic School Bus Gets Eaten...a Book about Food Chains!*

Vocabulary: interact, producer, consumer, decomposer, food chain, energy pyramid, food web, predator, prey.

## **January – Minerals, Rocks, and Fossils**

Unit C/Chapter 1

Lessons #1-3

Concepts/Skills: Minerals, rocks, the solid and liquid portions of the Earth's crust, Fossils.

Hands-on Experiment/Demonstration: Testing Minerals/Types of Rocks/Fossil Layers.

Project/Activity: Take-Home Book: Yellowstone Park

Video: *Bill Nye: Dinosaurs- Those Big Bone Heads*

Other:

Vocabulary: mineral, rock, crust, mantle, core, igneous, sedimentary rock, metamorphic rock, rock cycle, fossil.

## **February – Soils/Earth's Resources**

Unit C/Chapter 3

Lessons # 1-3

Concepts/Skills: Where soil comes from and how it forms, different types of soil, ways that soil is harmed, methods of conserving soil.

Hands-on Experiment/Demonstration: Enrich the Soil/Types of Soil/Saving Soil.

Project/Activity: *KidPix* 3 layers of soil; Take-Home Book: Use of Clay  
Video: *Magic School Bus Gets Ants in its Pants*  
Other: What Rot! Natures Mighty Recycler by Elizabeth Ring  
Vocabulary: soil, humus, topsoil, bedrock, clay, loam, resource, conservation, strip cropping, contour plowing.

Unit C/Chapter 4

Lessons #1

Concepts/Skills: Define resources, common resources, how people use resources.

Hands-on Experiment/Demonstration: Mining Resources

Project/Activity:

Video: *You Can't Grow Home Again*

Other:

Vocabulary: resource, renewable resource, reusable resource, nonrenewable resource, recycle.

### **March – Earth's Resources**

#### **ISAT TESTING**

Unit C/Chapter 4 continued

Lessons # 2-3

Concepts/Skills: Renewable, reusable, and nonrenewable resources, recycling.

Hands-on Experiment/Demonstration: Resource use/Recycling.

Project/Activity: Take-Home Book: Old Growth Forests

Video:

Others:

Vocabulary: see above

### **April – The Water Cycle/ Forces of Motion**

Unit D/Chapter 1

Lessons # 1-2

Concepts/Skills: Identify where water is found on Earth, describe forms of water, how water changes from one form to another, how water moves throughout the water cycle.

Hands-on Experiment/Demonstration: Land or Water/Evaporation.

Project/Activity: "Day in the Life of a Drop of Water:" Illustrate water cycle using

*Kidspiration* and *Comic Life*. Take-Home book: Irrigation.

Video: *Magic School Bus Water Cycle*

Other: Book- The Drop in my Drink: The Story of Water on Our Planet by Meredith Hooper

Vocabulary: groundwater, estuary, evaporation, condensation, precipitation, water cycle.

12e

Unit F/Chapter 3

Lessons # 1-3

Concepts/Skills: How forces are measured, definition of work, relationship between forces-motion and force-work, different types of simple machines and how they work.

12d

Hands-on Experiment/Demonstration: Measuring Pushes and Pulls/Measuring Work/Moving Up. Take-home book: A Cross Country Trip.  
Project/Activity: *Kidspiration* "Simple Machines Organizer"  
Video: *Bill Nye: Simple Machines*  
Other:  
Vocabulary: force, motion, speed, gravity, weight, work, simple machine, inclined plane, lever.

<b>May/June – Properties of Matter</b>
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12c
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Unit E/Chapter 1

Lessons #1-3

Concepts/Skills: Properties of matter, solid, liquid, gas, evaporation, using tools to gather information on mass and volume.

Hands-on Experiment/Demonstration: Physical Properties/One Way Matter Can Change/Measuring Mass and Volume.

Project/Activity: Liquid and food-coloring bottle. *Kidspiration* web using the 5 senses.

Video:

Other:

Vocabulary: matter, physical property, solid, liquid, gas, atom, evaporation, volume, mass.