

Organisms Science Kit- First Grade (2011)

Important: Live organisms are used with this kit. It is imperative that you tend to ALL organisms as soon as they are delivered to your school. See specified videos for visual instructions.

***Teachers please use this as a guide, when preparing the science kit lessons. Please be sure you are using focus questions with each lesson and are having the children use some type of science notebook. The purpose of the notebook is to help students develop, practice, and refine their science understanding, while enhancing reading, writing, mathematics and communications. Below you will find a link to additional teacher materials. In addition, we have provided you with a description of lessons and special things to consider. If you are in need of further assistance, please contact your CTC. ***

Website to obtain teacher materials and video lessons

http://www.carolinacurriculum.com/premium_content/Premium+Gateway>Login+Failed.asp

Username northcarolina.nsrci3@carolina.com

Password nsrci3

Teacher Materials include (but are not limited to)

- **Inquiry Masters**
 - **English Lessons- 1-7, 9, 12-13, 15-16**
 - **Spanish Lessons- 2-4, 6, 12-13, 15-16**
- **Teacher's Guide**
- **Concept Storyline**
- **Goals**
- **Safety Contract**
 - **English/Spanish**
- **Assessments**
- **Glossary**
 - **English/Spanish**

Videos

➤ Lesson 1

○ Sharing What We Know About Organisms

- Title and date three sheets of news print/chart paper
 - “Our list of Living Things”
 - “Ways we think plants and animals are Alike”
 - “Ways we think plants and animals are Different”
- Kids need Record Sheet 1A to draw living organism
- Kids brainstorm responses to charts (*can do lesson one in two parts*)
- Recommended to use literature (*see back of teacher’s guide for suggestions*)

➤ Lesson 2-3

○ Lesson 2- Observing and Describing Seeds-Planting Our Seeds

- Put Pumpkin seed, Kidney Bean, Pea, and Sunflower seed in plastic bag for each student
- Make large observing table/chart using symbols of four senses from blackline master and label chart “What we think a Seed is”
- *Need sheet *Observing and describing seeds* for each kid
- *Need hand lenses to teach focusing

○ Lesson 3-Planting the seeds

- (See video for visual instructions)
- *Impt. need aged water for this lesson*
- *Need Sheet planting card 1
- *Need Sheet planting card 2

➤ Lesson 4

○ Observing Woodland Plants

- ****Before lesson have kids bring in small rocks, twigs, and leaf litter. ****
- Label two different pieces of chart paper:
 - “Ways Woodland Plants Are Alike”
 - “Ways Woodland Plants Are Different”
- *Copy record sheet 4A and 4B for each kid
- Create terrariums (see video for visual instructions)
 - Option-you create all but one, ahead of time, and as a class create the last one.
- Unpacking and Planting Woodland terrarium plants (see video for visual instructions)
 - If the plants are damaged upon arrival call 800-334-5551 for replacement.
- *****Caution-messy dirt lesson. *****

- **Lesson 5**
 - **Observing Freshwater Plants**
 - Label two sheets of chart paper
 - “Ways Fresh water plants are Alike”
 - “Ways Freshwater plants are Different”
 - Each team receives an aquarium *(see video for visual instructions)*
 - *Impt. see video for handling of Elodea and Cabomba*
 - *****Caution- messy water lesson*****
- **Lesson 6-**
 - **How Have Our Seeds Changed?**
 - Pass out plants
 - Focus on growth and change in an organism; discuss what plants need to live
 - *Need planting cards 2&3 and “Taking My Plant Home” for each kid
 - Kids do a final observation and drawing of their plant
 - Put planting cards in order and use cards to create a class story
- **Lesson 7**
 - **Observing Freshwater Snails**
 - *Impt. see video for handling of Snails*
 - *****Caution-messy lesson. *****
- **Lesson 8**
 - **Observing Guppies: How do they Compare with the Snails**
 - *****This lesson is very time consuming BUT must be done to ensure the Guppies habitat is correct.*****
 - *Impt. see video for handling of Guppies*
 - Chart paper-Venn diagram comparing and contrasting Guppies and Snails
- **Lesson 9**
 - **Observing Pill Bugs**
 - *Impt. see video for handling of Pill Bugs*
 - *Need potato, lettuce, leaf litter, and bark
 - Each team receives two cups with soil, leaf, and one pill bug to put into terrarium
- **Lesson 10**
 - **Observing Bess Beetles or Millipedes: How do they compare with the Pill Bugs?**
 - Beetles
 - makes squeaking sound if disturbed
 - docile and harmless
 - breaks apart wood it came with looking for food- does not eat the wood
 - does not like light; seeks dark places

- Millipedes
 - has a cluster of eyes on head- eyes do not see
 - Does not like light
 - Stink glands along side of body
 - *Impt.-kids need to wear plastic gloves if they are going to handle the millipedes*

➤ **Lesson 11-12**

- **What's Happening in the Aquarium? What's Happening in the Terrarium?**
 - Kids observe, discuss, and write about changes
 - Aquarium Changes
 - Long, pale, green roots
 - Growth in plants
 - Plants may turn brown in color-due to lighting conditions in the classroom
 - Plants may have died
 - Fish or snails ate plants
 - Snails laid eggs
 - Snail shells may have changed color
 - Eggs hatched
 - Growth of guppies and snails
 - Guppies may become pregnant – seen with little black spots within guppies
 - Guppies may have had babies
 - Death with guppies and snails
 - Terrarium Changes
 - Seedlings- growing, turning brown, losing needles, dislodged
 - Moss- died, broken apart
 - Pill Bugs- molts, babies, death, tunnels, chewed wood pieces, eaten leaf litter

➤ **Lesson-13-14**

- **Freshwater and Woodland Plant: How do they compare? Freshwater and Woodland Animals: How do they compare?**
- *****See Teacher's Guide for complete instructions. The video was broken up. ******

➤ **Lesson 15**

- **How are our Plants and Animals Alike and Different?**
 - Venn Diagram comparing and contrasting plants and animals
 - Kids read, *"How a Zoo prepares a new home for a crocodile."*

➤ **Lesson 16**

- **Taking a Look at Ourselves**
 - Kids compare themselves with other living things