



First Grade Science Unit Guide

2013-2014

<http://science.dmschools.org>

| Literacy Unit | Theme | Iowa Core Standard K-2 | I Can Statements | Materials/ Resources | Project Ideas | Vocabulary needed |
|---------------|---------|--|---|---|---|--|
| 3 | Animals | <p>Understand and apply knowledge of lifecycles of plants and animals.</p> <p>Understand and apply knowledge of the characteristics of living things and how living things are both similar to and different from non-living things.</p> <p>Communicate investigations and explanations.</p> | <p>I can describe similarities and differences in the appearance of animals (e.g., size, shape, body coverings).</p> <p>I can identify major structures of animals (e.g. arms, wings, legs, beaks, claws).</p> <p>I can compare various habitats of animals.</p> <p>I can recognize that animals have life cycles that include being born, developing into adults, reproducing, and eventually dying.</p> | <p>Order non-fiction books from Heartland AEA http://media.aea11.k12.ia.us/display/041/www770?kw=animals&fm=BK&au=P</p> <p>Order live organisms from Trans-Mississippi (see live animals ordering instructions at: http://science.dmschools.org/elementary.html)</p> <p>Order Foss Kit Animals 2x2 from Heartland http://www.aea11.k12.ia.us/educators/science/foss/ani2.html</p> <p>Teaching ideas: http://www.teachingideas.co.uk/science/contents_animals.htm</p> <p>Video resources: http://kids.nationalgeographic.com/kids/littlekids/video/</p> <p>Other Online Resources: http://www.earthrangers.com/wildwire/?gclid=CKzcub3r97YCFYRM4AodhFoAtA</p> <p>http://kids.nationalgeographic.com/kids/animals/creaturefeature/</p> <p>http://www.kidsbiology.com/animals-for-children.php</p> <p>http://www.sciencekids.co.nz/animals.html</p> <p>http://www.interestinganimalsforkids.com/</p> <p>http://www.sciencenewsforkids.org/category/life/animals/</p> <p>http://kids.sandiegozoo.org/animal-cams-videos</p> | <p>Scholastic Unit “Animals are Everywhere” http://www.scholastic.com/teachers/lesson-plan/animals-are-everywhere</p> <p>Or</p> <p>Use Animals 2x2 Foss Kit which can be checked out from Heartland <u>(do this early to ensure you are able to get it)</u> Investigations 1,3,4 only <u>*Please note, you will need to skip Module #2 Land and Water Snails, as land snails are not permitted for transport in Iowa</u></p> <p>Other Lesson Ideas: Animal Research Project Have the students choose an animal they would like to learn more about. Have them do research on their animal to find out the following:</p> <ol style="list-style-type: none"> 1. The animal’s name 2. What does the animal eat? 3. Where does the animal live? 4. Is this animal a predator or prey? 5. Does it have fur, teeth, claws, scales, etc.? 6. How does it move? (fly, swim, run) 7. How does it reproduce? (lay eggs or live birth?) 8. Is it a mammal, reptile, bird, insect, amphibian or fish?) 9. Unique facts about your animal <p>Students may make a poster, do a drawing, or make a video or other computer presentation. Order animal books from the library or AEA to start them on their research in the classroom. They can also do online research with your help. They should then share their work by teaching their peers.</p> | <p>mammal, bird, reptile, amphibian, fish, egg, fur, claws, predator, prey, camouflage, wings, gills, fins, insect, reproduce, metamorphosis</p> |

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| 5 | Living Things | <p>Understand and apply knowledge of lifecycles of plants and animals.</p> <p>Plan and conduct simple investigations</p> | <p>I can recognize that plants have life cycles that include germination, growth, reproducing, and eventually dying.</p> <p>I can plant seeds and record their growth over time using numbers and drawing.</p> <p>I can describe what a plant needs to survive and grow.</p> | <p>Foss Kit New Plants, Investigations 1-4</p> <p>Order books on plants from Heartland AEA http://media1.aea11.k12.ia.us/display/041/www770?kw=plants&fm=BK&au=P&os=1&om=100&ot=1445&oq=%28ANIMALS%29ANDZFMT&oq=BK&oq=ANZAUD&oq=P&oq=&submit=1</p> <p>Online Resources: http://www.sciencekids.co.nz/plants.html http://www.teachingideas.co.uk/science/contents_plants.htm http://www.superteacherworksheets.com/plant-worksheets.html http://www.craftjr.com/plant-life/ http://www.theteachersguide.com/plantsflowers.htm</p> | <p>Foss New Plants Kit, Investigations 1-4</p> <p>Other Lesson Ideas: Have the students collect their own seeds and bring them in to grow. Have them chart their progress after they begin to sprout, measuring their growth and writing their data in a notebook. (Use clear plastic cups so the students can observe the roots too).</p> <p>Scholastic unit plan : From Seeds to Plants http://www.scholastic.com/teachers/lesson-plan/seed-plant</p> | <p>plant, root, stem, leaf, sun, water, sprout, grow, bulb, soil, seed</p> |