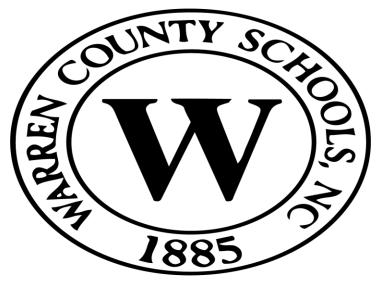
Warren County Pacing Guide



First Grade Science

NC Standards	Vocabi	ulary	Timeframe
Unit of Study: Forces and Motion	gravity	force	8/17-
1.P.1 Understand how forces (pushes or pulls) affect the motion of an object.	push		10/6/2020
1.P.1.1 Explain the importance of a push or pull to changing the motion of an	pull		
object.	motion		
 1.P.1.2 Explain how some forces (pushes and pulls) can be used to make things 	speed		
move without touching them, such as magnets.	position		
 1.P.1.3 Predict the effect of a given force on the motion of an object, including 	magnet		
balanced forces.	pole		
Essential Questions			
What is a force?			
How do forces affect objects?			
How do objects move? What affects motion?			
Why do objects move, change direction, or stop?			
What is gravity? How does gravity 'work'?			
How does gravity affect things on or near the earth?			
How are motion and gravity connected?			
Why do objects fall? How is gravity related to mass?			
What would happen if there were no force of gravity?			
NewHaven Force and Motion 1st grade			
http://www.newhavenscience.org/12forcesmotion.pdf			
A first-grade unit about force and motion.			
Force and Motion 1st grade unit			
http://www.rss.k12.nc.us/sites/rss.k12.nc.us/files/1forcesandmotion.pdf			
In this Forces and Motion Unit, first graders will explore how forces affect the motion of			
objects. Experiments are included in which students discover whether a force is a push or			
pull and how to create a push or pull. Students will also discover how forces like wind,			
gravity, and magnets can be used to move objects without touching them. Students will			
learn how to balance objects according to weight. Finally, first graders will also "race" cars			
to experiment with changing the speed of objects and changing the motion of an object.			
This unit includes a fun literacy integration with The Three Little Pigs and building a house			
that the Big Bad Wolf can't blow down!			

13 Grade 1 Force and Motion Unit

https://www.ncsmt.org/i3laser_pdfs/Grade1SupplementaryUnitPushandPull1P1.pdf

Rigorous curriculum design unit developed to address force and motion in grade 1.

Marveling in Magnets

http://web.archive.org/web/20061008101447/http://www.coreknowledge.org/CK/resrcs/lessons/04_2_MarvelingMagnets.pdf

This unit is an interactive, hands-on approach to learning all about magnets and magnetism. It looks at the origin of magnets along with the important properties of magnetism. Students will participate in activities and experiments that are specifically designed to help them understand magnetism and the laws of magnetic attraction.

Interactive Sites for Education: Force and Motion

http://www.bbc.co.uk/schools/scienceclips/ages/6 7/forces movement.shtml

http://www.bbc.co.uk/schools/scienceclips/ages/5 6/pushes pulls.shtml

http://www.bbc.co.uk/schools/scienceclips/ages/7_8/magnets_springs_fs.shtml

Video Resources:

Bill Nye - Gravity

http://www.schooltube.com/video/9d2282cbc5684091a143/Bill%20Nye%20Gravity

Bill Nye - Motion

https://www.schooltube.com/video/c74a9a495e7544dba30a/bill%20nye%20-%20motion

Text Resources:

Magnets

http://www.myschoolhouse.com/courses/O/1/33.asp?Back=Off

A Push or a Pull

https://www.youtube.com/watch?v=FOcY37oGhj8

Writing Prompts:

1. Imagine instead of living in one place, everyone had houses that moved from one place to another each day. Write about what this house might look like.

2. If you ran for a year, how far do you think you could travel?		
3. Write a poem about how things move in a game of kickball.		
4. Create a pamphlet describing three kinds of balls and how they move.		
5. How would the wheels on a wagon work if they were square? What would it be like to		
use a wagon with square wheels?		
Literature Connection		
https://www.whatihavelearnedteaching.com/12-force-motion-picture-books-engage-		
young-learners/		
Experiments & Activities		
Force and Motion Experiments		
Force and Motion Activities		
Assessment Prototypes		
1.P.1.1 Use playground and classroom equipment and structures to		
demonstrate and investigate a push, pull, or change in motion. Discuss		
scenarios with student groups and ask the students to make predictions (for		
example: What will happen if I push a ball that is resting on the floor?).		
1. P.1.2 Teacher guided inquiry: have students observe and investigate		
which types of materials can be moved by magnets and which materials can		
not.		
1. P.1.3 Guide students to manipulate blocks on a balance and predict the		
motion of the balance (up or down) when items of different masses are placed		
on each side.		
Unit of Study: Earth in the Universe	recognize (P)	10/7-
1.E.1 Recognize the features and patterns of the earth/moon/sun system as observed	observe (P)	12/2/2020
from Earth.	differences	
1.E.1.1 Recognize differences in the features of the day and night sky and apparent	sun	
movement of objects across the sky as observed from Earth.	star	
1.E.1.2 Recognize patterns of observable changes in the Moon's appearance from day to	moon	
day.	features	
Essential Questions	day sky	
How can we become better readers and writers when learning about science?	night sky	
What do you know about the solar system? What do you want to learn about the solar	Earth	

system? planet* What are the positions of the planets? space* shadow* How is the Earth special? What are the layers of the Earth? How is the moon special? What is the lunar cycle? daytime What are the four seasons? brightness What is special about spring? color What is special about summer? scatter What is special about fall? apparent What is special about winter? movement How do the trees change during the seasons? objects How can we observe how much light is shining during a particular day? recognize (P) What did you learn about the solar system? observe (P) How can the sun help you if you are lost? patterns Moon observations during the day week http://www.lpi.usra.edu/education/space_days/activities/moon/documents/Moon Investi observable gator Guide.pdf changes appearance Sun, Moon and Stars books day to day http://beyondpenguins.ehe.osu.edu/issue/polar-patterns-day-night-and-seasons/polarpatterns-virtual-bookshelf **Graphing Monthly Lunar Cycle** http://sciencenetlinks.com/lessons/sky-4-the-moon/ Comparing the day and night sky http://sciencenetlinks.com/lessons/sky-1-objects-in-the-sky/ Moon information and kids pictures http://solarsystem.nasa.gov/kids/moon kids.cfm Sun information and kids pictures http://solarsystem.nasa.gov/kids/sun kids.cfm The Moon at Enchanted Learning

http://www.enchantedlearning.com/subjects/astronomy/moon/Moonweblinks.shtml

Moon Song video

https://www.youtube.com/watch?v=GvkrC4HSLkM

Grade 1 - 1-ESS1 Earth's Place in the Universe

https://www.exploringnature.org/db/view/Grade-1-1-ESS1-Earthrsquos-Place-in-the-Universe

Grade 1: Earth's Place in the Universe

https://www.bcsberlin.org/cms/lib/NJ01001442/Centricity/domain/11/august%202017/Un

it Unit 4 Earths Place in the Universe 20170729201551.pdf

The Predictable Patterns of the Sun and the Seasons

https://betterlesson.com/lesson/635856/the-predictable-patterns-of-the-sun-and-the-seasons?from=cc lesson

Literature Connection

Lily and the Moon https://www.youtube.com/watch?v=nvZz823LyXU

When I met the Moon https://www.youtube.com/watch?v=fudoelg0C0E

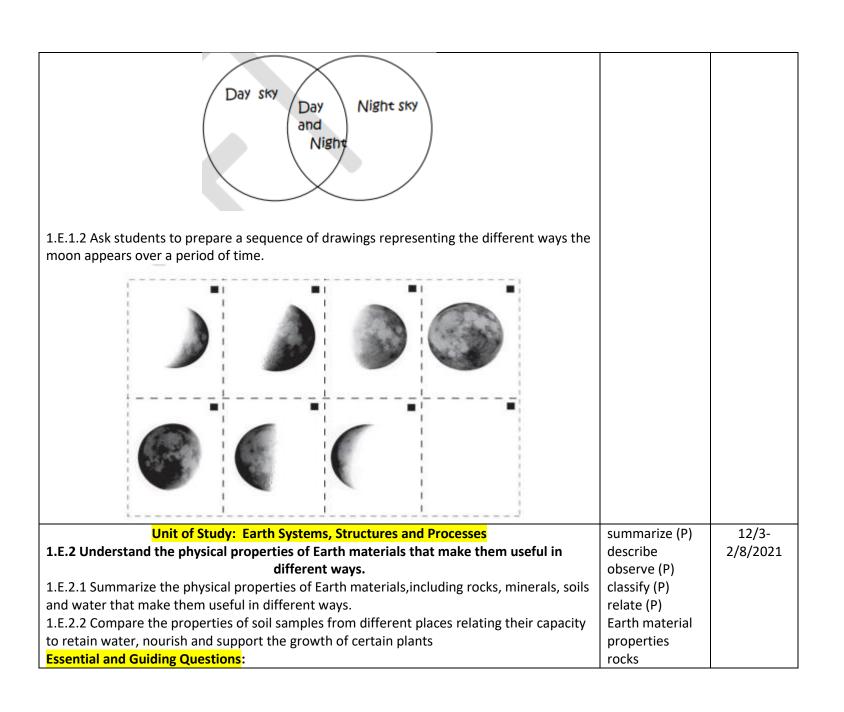
The Moon Book by Gail Gibbons

Writing Prompts

- 1) Write an informative text that supplies some facts about objects in the sky.
- 2) With guidance and support from adults create a graphic organizer for differences in the day and night sky.
- 3) Use digital tools to create a class book showing changes in the moons appearance over time.
- 4) Draw a picture and write about what you did when you observed the sky.
- 5) Write a narrative about the changes in the sky. Use temporal words to signal event order.

Assessment Prototype

1.E.1.1 After monitoring the day and night sky for several days and nights, lead students to complete a Venn diagram showing objects that are visible at night, day or day/night.



What is Earth made of? minerals How is an Earth material defined? soils Why are rocks described as non-living materials? water How can rock and sand be classified? matter How is water classified? physical How can different soils be described using properties? properties How can soils be sorted and classified by their properties? -color How can rocks be classified? -size What earth materials are necessary for plants to grow? -shape How are Earth materials used for growing plants? -weight What characteristics of Earth materials help plants to grow? -texture -flexibility **TEACHING Resources:** -attraction to **NCES 1st grade Earth Systems LiveBInder** magnets A livebinder dedicated to the 1E2 standard. -float http://www.livebinders.com/play/play?id=478295 -sink retain **Utah Education Network Unit** solids This site includes units and lesson plans that may be useful to teachers teaching the shape objectives of this resource pack. occupy http://www.uen.org/core/displayLessonPlans.do?courseNumber=3010&standardId=388 liquid 28&objectiveId=38829 useful 1.E.2.2 http://www.uen.org/Lessonplan/preview?LPid=1232 compare (P) relate (P) http://www.uen.org/Lessonplan/preview?LPid=5676 samples location/places http://www.uen.org/Lessonplan/preview?LPid=28147 capacity nourish http://www.uen.org/Lessonplan/preview?LPid=1221 sustain **Grade 1 Science Earth Unit** This unit proposal includes lessons ideas that are sequenced to address NCES 1.E.2. Teachers may find the lesson ideas useful as they develop their own plans.

http://www.wheretomorrowbegins.org/climb/wp-content/uploads/2013/02/1E2-Earth-science-Unit.pdf

Properties of Earth Materials Interactivities

These web interactives are focused on properties of Earth Materials in grades K-4.

http://www.learningscience.org/esc1aearthmaterials.htm

Rocks and more

In this unit, students pursue their natural interest in the world around them. In this unit, students will look and compare rocks and other earth materials by their physical attributes.

https://www.georgiastandards.org/Frameworks/GSO%20Frameworks/KK%20Science%2 0Framework%20Rocks%20and%20Soil.pdf

Investigating Soil

This lesson is one approach to teaching young students about soil.

http://www.bsisd.esc18.net/documents/Lesson%20Ideas/LESSONS%20&%20RESOURCES/SCIENCE/1st%20Gr/Science_Grade_01_Unit_04_Exemplar_Lesson_01_Investigating_Soil.pdf

Getting down and dirty with soils Learn NC

In this lesson, we will explore different kinds of soil (humus, sand, clay). The students will plant seeds in the different soils as part of further exploration.

http://www.learnnc.org/lp/pages/3532

Learning about rocks Learn NC

In this lesson, students will be engaged in hands-on experiences while they explore rocks. http://www.learnnc.org/lp/pages/3245

Grocery Store Matter Learn NC

Adapt this lesson! Change this to EARTH MATERIALS MATTER - Substitute rocks, soils, water, and other earth materials (for groceries) and have students explore them over several days.

http://www.learnnc.org/lp/pages/3100

Building Things with Earth Materials

This is a week-long lesson that follows the STEM (science, technology, engineering, and math) design cycle. For the first two days, students learn about mud daubers and termites, both of which build nests from Earth materials. Then, they plan how they could make their own model of a wall using similar materials.

http://betterlesson.com/lesson/635674/stem-lab-building-models-with-earth-materials
Engineering and the Three little Pigs

The purpose of this activity is to demonstrate the importance of rocks, soils and minerals in engineering and how using the right material for the right job is important. The students build three different sand castles and test them for strength and resistance to weathering. Then, they discuss how the buildings are different and what engineers need to think about when using rocks, soils and minerals for construction.

https://www.teachengineering.org/activities/view/cub_earth_lesson1_activity1

Three Little pigs STEM design challenge

Google the title above to find another Design Challenge with the 3 Little Pigs that is especially designed to address language acquisition. From the Mid-Columbia STEM Education Collaboratory

http://www.sweetsoundsofkindergarten.com/2015/06/the-3-little-pigs-stem-challenge.html

Video Resources:

http://www.watchknowlearn.org/SearchResults.aspx?SearchText=Rocks+and+soil

Assessment Prototype

1.E.2.1 Ask students to sort a collection of earth materials based on observable properties and ways they are useful. Explain the rules used for sorting.

Guide students to compare the results of using different natural earth materials – to build a tower (tallest, most stable in wind, holds largest weight, etc.).

Investigate the properties of solids and liquids in containers of different sizes and shapes. Communicate findings to teacher, & peers.

1.E.2.2 In a teacher guided experiment, lead students to investigate the ability of different types of soils to grow plants and elicit from the students

correspondences that they perceive among the different types of soils and		
plants.		
Guide students to investigate, observe, and describe how different		
types of soil 'clump' or hold together when water is added to them.		
Unit of Study: Ecosystems	Soil	2/9-
1.L.1 Understand characteristics of various environments and behaviors of humans that	Topsoil	4/7/2021
enable plants and animals to survive.	Subsoil	
1.L.1.1 Recognize that plants and animals need air, water, light (plants only), space, food	Bedrock	
and shelter and that these may be found in their environment.	Nutrients	
1.L.1.2 Give examples of how the needs of different plants and animals can be met by their	Rock	
environments in North Carolina or different places throughout the world.	Water	
Essential Questions:	Surface	
What are the basic characteristics of environments?	Recycle	
What are the basic needs of plants and animals?	Earth	
How do environments in North Carolina meet the needs of the organisms that live there?	Litter	
How can humans protect the environment?	Trees	
How can humans improve the conditions for the growth of plants and animals in a	Plastic	
particular environment?	Rubber	
Instructional Resources:	Sunlight	
Earth Day and the Environment	Air	
Lessons and activities for Earth Day and beyond that help students build awareness of our	Water	
planet's needs and develop ways to meet them.	Shelter	
http://www.scholastic.com/teachers/unit/earth-day-and-environment-everything-you-	Needs	
<u>need</u>		
Eeko World		
EekoWorld features fifteen lesson plans. There are three lessons for each grade level from		
kindergarten through grade four. The lesson plans contain the following components:		
overviews, grade level, learning objectives, building background activities, learning		
activities, extension activities, and standards. The educational standards for all the lessons		
are compiled by grade ranges from K-2 and 3-5.		
http://pbskids.org/eekoworld//parentsteachers/lessons.html		
The Needs of Living Things		

In this lesson, students watch video clips of animals and plants in their natural environment, to gather evidence that all living things have basic needs that must be met in order to survive. Then, to illustrate their understanding of this concept, students draw pictures of real or imaginary pets eating, drinking, breathing, and taking shelter (from the elements or from other animals).

http://www.pbslearningmedia.org/resource/tdc02.sci.life.colt.lp_stayalive/the-needs-of-living-things/

Needs of Plants and Animals

A collection of Power Point slides that teachers can use to teach these concepts. http://www.compton.k12.ca.us/pages/departments/Curriculum/PDF/1stGradeUnitBChp3
5.pdf

Plant and Animal Needs

Plants and animals change as they grow. Animals need food, water, shelter, air, and space to survive. Plants need nutrients, water, air light, and a place with adequate space for them to grow.

http://www.doe.virginia.gov/testing/sol/standards_docs/science/2010/lesson_plans/kindergarten/life_processes/sess_K-7ab.pdf

NCES 1.L1 Live Binder

A live binder collection dedicated to ES 1.L.1.

http://www.livebinders.com/play/play?id=478503

Plants and Animals Unit

Students investigate the basic needs of plants and animals, and more.

https://www.georgiastandards.org/Frameworks/GSO%20Frameworks/1%20Science%20Framework%20Plants%20and%20Animals.pdf

Beyond penguins and Polar Bears: Plants

Plants are a common topic in elementary classrooms for good reason — they are an effective, inexpensive way for students to observe living organisms and life cycles firsthand. Primary students often focus on familiar plants, basic plant structures and their functions, and our use of plants as a food source. In the upper-elementary grades, students investigate germination, plant life cycles, and flowering and seed production in more detail. These students are also ready to consider the diversity of plants around the world and the

adaptations that allow plants to survive in very different environments.

http://beyondpenguins.ehe.osu.edu/issue/polar-plants/hands-on-lessons-and-activities-about-plants

PBL Unit Plants and Animals

All around us are plants and animals. We see plants and animals at school, at our homes, and while we are in our cars. In this unit students will explore the world around them through a visit to the zoo and by growing plants.

http://www2.davidson.k12.nc.us/pbl/eett/EETT0506/Plants%20and%20Animals%20PBL.pd f

CScope Unit: Basic Needs of Plants and Animals

http://www.bigspringisd.net/Uploads/177/misc/f266918.pdf

Bright Hub - Animals Have Needs Too

Helping students understand characteristics of animals is a major portion of the first grade science curriculum. With these animal basic needs lesson plans, your first graders will understand the needs of pets and other animals. You can extend the lesson to include the interdependence of plants and animals, as well.

http://www.brighthubeducation.com/lesson-plans-grades-1-2/102180-the-basic-needs-of-animals-first-grade-lesson/

Needs of Animals – Learn NC

In this lesson plan first grade students will examine photographs of 4-H club members with animals from North Carolina. They will make observations from the visual material to build an understanding of the needs of animals. They will begin to learn that these needs have remained the same in different times.

http://www.learnnc.org/lp/pages/1626

Who Needs What - Teach Engineering

In an introductory discussion, students identify the physical needs of animals and then speculate on the needs of plants. With teacher guidance, students then design an experiment that can take place in the classroom to test whether or not plants need light and water in order to grow. This prepares them to conduct the associated activity in which

sunflower seeds are planted in plastic cups, and once germinated, are exposed to different conditions. In a classroom setting it is easy to test for the effects of light versus darkness, and watered versus non-watered conditions. During exposure of the plants to these different conditions, students measure growth of the seedlings every few days using non-standard measurement. After a few weeks, they compare the growth of plants exposed to the different conditions, and make pictorial bar graphs that demonstrate these comparisons.

https://www.teachengineering.org/lessons/view/duk_sunflower_mary_less

Bottle Biology

http://resources.fastplants.org//agriscience/agriscienceappendixa.pdf

North Carolina Species

http://www.ncwildlife.org/Learning/Species

North Carolina Environmental Education

http://web.eenorthcarolina.org/core/item/topic.aspx?tid=85010

NC Environmental Education resources

http://www.projectwild.org/growingupwild/NorthCarolina.htm

http://deq.nc.gov/node/83115

https://forestry.ces.ncsu.edu/ncplt/

http://www.nrcs.usda.gov/wps/portal/nrcs/detail/?ss=16&navtype=BROWSEBYSUBJECT&c

<u>id=nrcs143_022018&navid=220120000000000&position=Not%20Yet%20Determined.Html</u>

&ttype=detail

http://www.fs.usda.gov/main/conservationeducation/educator-toolbox/elementary

The Needs of Living Things

Students learn what animals and plants need to survive, how their habitats support these needs, and how organisms can change their environment.

 $\underline{http://www.pbslearningmedia.org/resource/tdc02.sci.life.colt.lp_stayalive/the-needs-of-living-things/$

Plants and Animals

Students will identify the basic needs and specific physical characteristics of plants. Students will identify the basic needs and specific physical characteristics of animals. https://www.georgiastandards.org/Frameworks/GSO%20Frameworks/1%20Science%20Frameworks/20Plants%20Animals.pdf

Core Knowledge Animals and Their Needs

This unit will fan the flames of the children's enthusiasm by letting them participate in hands-on lessons that involve real animals. The students will learn about animal characteristics, pet care, animals' basic needs, and animal safety. The lessons incorporate a variety of teaching styles to engage all learners.

http://www.coreknowledge.org/mimik/mimik_uploads/lesson_plans/1095/K_animalsneed_s-uwp.pdf

CScope Basic Needs of Plants and Animals

This lesson is one approach to teaching the concepts associated with this standard. http://www.bigspringisd.net/Uploads/177/misc/f266918.pdf

Video Resources:

Bill Nye - garbage -

http://www.dailymotion.com/video/x3cvox0?GK FACEBOOK OG HTML5=1

Habitat Song - https://www.youtube.com/watch?v=VVPyjukPxFA

Habitat – Old McDonald - https://www.youtube.com/watch?v=xlFl2jXhUV4

Berenstain bears – the trouble with pets

 $\underline{https://www.youtube.com/watch?v=IBc6Ri4MK9Y\&list=PLpTWh6VEf2n98HbsesnNLjfwFTAIRIFYd}$

Assessment Prototype

- 1. L.1.1 Guide students to observe animals and plants on school grounds, noting how the environment provides each with air, water, light, space, food and shelter.
- 1. L.1.2 Guide students to investigate schoolyard and classroom habitats and

compare (detect correspondences among) the different living things they find	1	
in each type of environment.		
1.L.1.3 Lead students to apply an understanding of ecology by participating		
in animal and plant caretaking, recycling, etc. Develop and follow classroom		
, and the second		
procedures that demonstrate respect and care for the environment and		
minimize harmful human impact.	I in the m	4/0
Unit of Study: Molecular Biology	Living	4/8-
	Air	6/3/2021
1.L.2 Summarize the needs of living organisms for energy and growth.	Water	
1.L.2.1 Summarize the basic needs of a variety of different plants (including air, water,	Light	
nutrients, and light) for energyand growth.	Nutrients	
1.L.2.2 Summarize the basic needs of a variety of different animals (including air, water,	Food	
and food) for energy andgrowth.	Energy	
Instructional Resources:	Growth	
	Habitat	
The Needs of Living Things	Environment	
Students learn what animals and plants need to survive, how their habitats support these	Organisms	
needs, and how organisms can change their environment.	Plants	
http://www.pbslearningmedia.org/resource/tdc02.sci.life.colt.lp_stayalive/the-needs-	Animals	
of-living-things/	needs	
Plants and Animals		
Students will identify the basic needs and specific physical characteristics of plants.		
Students will identify the basic needs and specific physical characteristics of animals.		
https://www.georgiastandards.org/Frameworks/GSO%20Frameworks/1%20Science%20F		
ramework%20Plants%20and%20Animals.pdf		
Core Knowledge Animals and Their Needs		
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hands-on lessons that involve real animals. The students will learn about animal		
characteristics, pet care, animals' basic needs, and animal safety. The lessons incorporate a		
variety of teaching styles to engage all learners.		
http://www.coreknowledge.org/mimik/mimik_uploads/lesson_plans/1095/K_animalsne		
eds-uwp.pdf		

CScope Basic Needs of Plants and Animals

This lesson is one approach to teaching the concepts associated with this standard. http://www.bigspringisd.net/Uploads/177/misc/f266918.pdf

Needs of Living Things – Australia version

This is a unit about basic needs of living things that focuses on animals and plants that can be found in Australia. This is a very good resource for interdisciplinary study.

http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=19&ved=0ahUKEwjPluSQ_LvOAhWC5yYKHY9XBtY4ChAWCDswCA&url=http%3A%2F%2Fwww.qm.qld.gov.au%2F~%2Fmedia%2FDocuments%2FLearning%2Bresources%2FQMSB%2FTeacher%2Band%2Bstudent%2Bresources%2Fneeds-of-living-things-teacherresource.pdf&usg=AFQiCNFJhKJvQ5FoXd3ptUlol7dmBBVa1A

Beacon Needs of Living Things Unit

The purpose of this unit is for first graders to learn about living things. Students will learn how to group living things, basic needs of living things, that there are many different living things and that each has an environment. They will also learn how living things adapt to both their environment and for survival purposes. Language Arts skills are reinforced using the science content.

http://www.beaconlearningcenter.com/unitplan/unitplan.asp?ID=2952

Science Web Australia

This unit aims to bring student prior knowledge to a conscious level, making explicit all the basic needs of living things. Through the firsthand experience of a guest presenter, students recognise how people look after a pet to meet its basic needs. Focus questions help identify what senses the animal uses to help meet those needs. Students use the experience to create a model of a pet and identify how they would meet its needs. http://scienceweb.asta.edu.au/years-f-2/unit1/overview/yrf2-unit1-overview.html

Bio Ed Online

Differences between needs and wants, living and nonliving, plants and animals; survival needs for people, plants and animals (air, food, water, home, habitat, environment). http://www.bioedonline.org/lessons-and-more/lessons-by-topic/ecology/needs-of-living-things/

Needs of Living Things – selected units to explore and adapt*

http://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=16&ved=0ahUKEwidlpeRgLzOAhUDySYKHQwWChU4ChAWCDwwBQ&url=http%3A%2F%2Ffieldofmarseec.nsw.edu.au%2Fwp-content%2Fuploads%2F2013%2F02%2FNeeds-of-Living-Things.doc&usg=AFQjCNFl8W9BjUgkiegEjg2Cuy68ZDj6IA

http://www.state.nj.us/education/modelcurriculum/sci/ku4.pdf

Writing Prompts:

- 1. Create a Venn diagram that compares the needs of plants and animals.
- 2. Write a haiku about your favorite animals and one of its needs.
- 3. Create a graphic organizer featuring the animals and plants you encounter in your environment.

Assessment Prototypes:

1. L.2.1 & 1.L.2.2

Guide students to assist with maintaining classroom pets and plants and have students monitor & record what provisions for food, water, and habitat are made for these living organisms in the classroom.