

## Third Grade Science Core Lab Schedule 2016-2017

9 Wks	Dates	HP Core Lab Title and Evaluation Response Question	Lab Vocabulary	Junior Master Gardener	Look for Concept	TEKS Target Always: 1A,2E,4A,4B
1 <sup>st</sup> Grading Period 1	Aug. 22-26	Interactive Notebook/Safety/Tools/Scientific Method Describe the scientific method.	Science safety, tools, scientific method		Lab Safety - Notebooking	4B
2	Aug.29-Sept 2	Shady Characters/Herb and Woody Compare and contrast structures and functions of herb and woody stems adapted to different ecosystems. Include a Venn diagram.	Stem, tree cookie, herb, woody, botany, ecosystems, adaptations, landforms, structures, functions	Ch1 p15 Plant Performance/ p4 Benefits Mobil/ Ind-Happy Birthday Tree Ch 3 p50 The Tree Community Ch5 p119 People and Places/Money Trees	Comparing Hard Stems and Soft Stems	2C,4A
3	Sept. 5-9 M-Holiday	Leaf Collection/Leaf Facts/Cones and Needles Compare and contrast structures and functions of parts of a conifer and deciduous tree . Include a Venn diagram.	Conifer, deciduous, cone, needle, leaf, structures, functions	Ch1 p7 Leaf and Seed Sort/p8 Plant Parts Rap/Ind-Can You Be-Leaf It & Leaf Rubbing Rainbow Ch5 p126 Tearing Trees/ p127 How Tall is That Tree?	Comparing Leaf Diversity	1A,2C,10A,10B
4	Sept. 12-16	New Plant Discovery/Photosynthesis Explain the process of photosynthesis and why it's important to plants and animals.	Photosynthesis, carbon dioxide, oxygen, sugar, sun's energy	Ch1 p4 Know-Show Sombbrero/p13 Picture Yourself A Plant Ch4 p102 Designer Plant/Insects	Understand and Parts of Photosynthesis	1A, 7D, 10A, 10B
5	Sept. 19-23 F-ER	Isopods-Pill bugs/Invertebrates/Metamorphosis: Life Cycle Describe how an isopod is adapted to survive in its environment.	Invertebrate, adaptation, habitat, survival, traits, characteristics	Ch4 p80 All In The Family: Insect Flash Cards	Invertebrates and Adaptation	2C, 4A, 7D,10A, 10B
6	Sept. 26-30	Table Manners/Insect Mouth Parts Describe how insects are adapted to survive.	Adaptation, habitat, survival, traits, characteristics	Ch 4 p81 Ordering Insects/p94 Chew On This/p102 Garden Friends & Foes	Explore Adaptations – Inherited Traits – Life Cycle	10A, 10B, 10C
7	Oct. 3-7	Vertebrate–Frogs/Sticky Tongues Describe how amphibians are adapted to survive in their habitats.	Vertebrate, adaptation, habitat, survival, traits, characteristics, energy transfer	Ch 4 p104 Don't Bug Me!	Adaptation – Energy Transfer	2C, 4A, 10A
8	Oct. 10-14 M-EX/HOL	Predator-Prey Roadrunner/Inherited Traits How is energy transferred in desert biomes?	Perish, thrive, adaptation, habitat, survival, traits, characteristic, pollution, factors, line graph, energy transfer		Food Chain- Energy Transfer-Missing Part of a System	2E, 10A, 10B, 10C
9	Oct. 17-21	Balancing Bats/Stations Describe how bats are adapted to survive in their habitats.	Adaptation, habitat, survival, traits, characteristics, wing span, skeleton	Ch 4 p79 Secret Smells Game	Adaptations-Comparing Characteristics of Species	2D, 10B
2 <sup>nd</sup> Grading Period 10	Oct. 24-28 Friday ER	Fred the Fish/Environmental Conservation How does extinction from pollution affect the environment?	Pollution, environment, conservation	Ch2 p28 Nutrient Variable/p40 Water Flows, Soil Goes Ch3 p54 On The Move	Effects on the Food Chain- Pollution	10A, 10B
11	Oct. 31-Nov. 4	Cleaning Up the Oil How can you help or stop pollution? Write a letter to your senator.	Oil, gyre, renewable, nonrenewable, inexhaustible	Ch3 p47 Polluting Your Planet	Effects of Pollution on the Environment	2A, 2C, 2D, 2E, 9A, 9B, 9C, 10A, 10B
12	Nov. 7-11	Natural Resources Exploration Compare renewable, nonrenewable, and inexhaustible resources.	renewable, nonrenewable, inexhaustible resources	Ch3 p57 Weighing Wastes/p64 Know & Show Recycling Hat	Identifying and Conserving Natural Resources	1B, 2D, 3A, 5D, 9A, 9B, 9C, 10A
13	Nov. 14-18	Landforms–Primarily Earth Describe the physical characteristics of landforms and how they are important to communities/civilizations.	Landforms-various types	Ch3 p55 Both Sides of the Fence	Building Landforms	1B, 2A, 2C, 3A, 5D, 9C
14	Nov. 21-25 W/TH/F- Thanksgiving	A Tale of Time and Terrain/Water Shed Describe what a water shed is, how it is created, and why they are important to communities.	Water shed, run off, pollution, water source, conservation, treatment plant, community	Ch3 p52 Our Pocket Park Ch5 p121 Site Map	Water Shed Model and Effects of Weathering and Erosion, Deposition	1B, 2C, 2D, 5D,7A,7D
15	Nov.28-Dec. 2	Weathering-Sand on Stage/Sedimentary & Metamorphic How does the earth create sedimentary rocks?	Weathering, sedimentary rocks, metamorphic rocks, sand	Ind-Ch2 Soil Rainbow	Intro. to Rock Types Sedimentary & Metamorphic Weathering	2C, 2E, 4A, 7A, 7B
16	Dec. 5-9	Rapid Change//Not My Fault/ Igneous Rocks What are plate tectonics, and what do they create?	Plate tectonics, igneous rocks, Pangaea, ring of fire, volcano, earth quake		Earth Changes Volcano, Earthquakes	2C, 2E, 4A, 7A, 7B, 7C
17	Dec. 12-16 F-ER	Soil Structure/Sifting/Build Adobe Bricks Explain how a sifter works.	Soil, silt, silt, sand, pebbles, gravel, rocks, boulders.	Ch 2 p39 Out of the Spout/p25 Touchy Feely/p26 Mud Pies/p26 Shake/Ind-Ch2 Soil	Soil Structure -Looking at Particles Size Characteristics	2C, 2E, 4A, 7A, 7B, 7C

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3 <sup>rd</sup> Grading Period 18	Jan. 2-6 M- PD	Sun/Solar System Model Describe the parts of the sun and its role in our solar system. Compare the distance of each planet from the sun.	inner planets, outer planets, increasing distance, size comparison, characteristics, orbit		Make a Model, Research	3C, 4A, 8A, 8B, 8C, 8D
19	Jan. 9-13	Earth, Moon and Sun Models Compare the inner and outer planets.	inner planets, outer planets, increasing distance, size comparison, characteristics, orbit		Models, Position and Relationships to the Sun	3C, 4A, 8A, 8B, 8C, 8D
20	Jan. 16-20 M-Holiday	Galactic Games – Part 1 Explain gravity.	Gravity, length, mass, weight, distance, meteors, asteroids, calculate		Gravity's Effect, Solar System, Planetary Mass	2B, 2C, 2E, 3C, 4A, 8B, 8D
21	Jan. 23-27 F-ER	Galactic Games – part 2 Which planet would you choose to host the next Galactic Games? Explain your choice.	Gravity, length, mass, weight, distance, meteors, asteroids, calculate		Gravity's Effect, Solar System, Planetary Mass	2A, 2D, 3C, 4A, 8B, 8D
22	Jan.30-Feb. 3	Star Power/Sun's Effect on Earth /Water Cycle/Spectroscope/Star Life Cycle What effects does the sun have on Earth?	Spectroscope, electromagnetic light spectrum	Ch2 p39 Where Did It Go?	Sun's Effect on Earth, Heat and Light Energy, Orbits and Position	2B, 2C, 2E, 3C, 6C, 4A, 8B, 8D
23	Feb. 6-10	Sun: UV Beads/Sun Print Paper How can you protect yourself from UV radiation?	Ultraviolet Light, UVA (long waves), UVB (short waves)		Instruments for Identifying Sun's Effect on Earth	2B, 2C, 2E, 3C, 4A, 5A, 5B, 6C, 8B, 8D
24	Feb. 13-17	Radiometer Investigations Explain how a radiometer works?	Vanes, light energy, push, pull		Design Scientific Investigations Using the Radiometer and the Effects of the Sun	2B, 2C, 2E, 3A, 3C, 4A, 6C, 8B, 8D
25	Feb. 20-24 M=PD	Matter-Mixtures-Oobleck/Salt & Water Explain what state of matter Ooblek is and give evidence.	Solid, liquid, gas, plasma		Explore States of Matter	2A, 3D, 5A, 5B,5C, 5D
26	Feb. 27-March 3	PASS Matter/Properties/Engage/Alien Matter Describe three properties scientists use to classify matter.	Magnetic, color, sink/float, odor, odorless, mass, texture		Investigate Properties of Matter	2A, 2B, 2C, 2E, 4A, 5A,5B, 5C, 5D
27	March 6-10 F- PD	PASS Matter/Open/Closed Mystery Cans/Explore Explain how a scientist uses his/her senses to describe matter.	Mass, slide, roll, slosh, hefting		Inference and Classify Using Physical Properties of Matter	4A, 5A,6A
4 <sup>th</sup> Grading Period 28	March 20-24	Weather Instruments: The 3 <sup>rd</sup> Degree/The Cool Off Explain how to use a thermometer to measure Celsius.	Celsius, thermometer, temperature, line graph, trials		Thermometers and Graphing	2A, 2D, 2E, 4A, 5A, 5B,5C,6A
29	March 27-31 T/W STAAR	Volume–Mass/Matter Explain volume displacement.	Volume, volume displacement, catch can, mass, scale, grams, graduated cylinder, irregular solid		Archimedes- Volume by Displacement-Mass with Balance Scales	2B, 2E, 5A, 6B, 6C
30	April 3-7	Energy-Light, Optics and Sound Compare light and sound energy. Include a Venn diagram.	Energy, light, optics, heat, sound, vibrations, waves, straight lines		Light and Sound Energy, Models	2B, 2E, 5A, 6A
31	April 10-14 ER-13 Ex Day 14	Magnetism Explain how two magnets can attract and repel.	Repel, attract, south, north, earth's magnetic field		Physical Properties of Matter - Magnetism	5D,6A, 6B, 6C
32	April 17-21	Simple Machines-Push and Pull/Kick the Bucket Explain how force affects motion.	Force, motion, gravity, distance, centimeters	Ch5 p130 Arbor Day	Position and Motion Can Be Changed	6A, 6B,6C
33	April 24-28	Simple Machines- Lever-Lego-#4 & 8 Find three levers in your classroom and explain how they make your work load easier.	Lever, simple machines, fulcrum, work load, force, motion		Position and Motion Can Be Changed by a Lever	6A, 6B, 6C
34	May 1-5	Simple Machines- Wheel and Axle- Lego #10 & 11 Find three wheel & axles in your classroom and explain how they make your work load easier.	Simple machine, wheel & axle, force, motion, work load		Position and Motion Can Be Changed by a Wheel and Axle	6A, 6B, 6C
35	May 8-12 STAAR Test 8-11	Simple Machines- Pulley-Fixed and Movable/ Milk a Mammoth Invent a simple machine pulley system. Explain how it works and its purpose.	Simple machines, pulley, force, motion, work load		Position and Motion Can Be Changed by a Pulley	6A, 6B,6C
36	May 15-19	Simple Machines-Inclined Planes Invent a system of inclined planes. Explain how it works and its purpose.	Simple machines, inclined plane, force, motion, work load		Position and Motion Can Be Changed by an Inclined Plane	6A, 6B,6C
37	May 22-26 F=ER	Science Extravaganza				