Everest Academy

2016-17 Scope & Sequence
Grade: 2 Subject: Science

Revised 3/3/2016

1st Quarter (45 Days)			
Resources: **Science Fusion (2015) Houghton Mifflin**			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st: Aug 8-12 *(5 days)*	**Unit 1:"Work like a scientist"**	TSW learn that scientists ask questions about the world around them and how they find answers by investigating through many methods.	2.2a, 2.2b, 2.2c, 2.2d, 2.2e, 2.3a, 2.4a, 2.4b
2nd: Aug 15-19 *(5 days)*	**How do scientists think?**	TSW learn that scientists investigate by following steps and using tools to answer a question	2.2a, 2.2b, 2.2d, 2.3a, 2.3b, 2.3c, 2.4a
3rd: Aug 22-26 *(5 days)*	**Unit2: "Technology and our world"**	TSW learn that information and critical thinking, scientific problem solving, and the contribution of scientists are used in making decisions.	2.2a, 2.2b, 2.2d, 2.2e, 2.3a, 2.3c
4th: Aug 29-Sept 2 *(5 days)*	**Unit1 &2 Review and Assessment**	Review and Assessment	Review
5th: Sept 6-9 *(4 days)*	**Unit 3: " Changes in matter"** **What is matter?**	TSW understand that everything is matter and be able to differentiate between solid, liquid, and gas.	2.2a, 2.2b, 2.2d, 2.2e, 2.2f, 2.5a, 2.5b
6th: Sept 15-16 *(2 days)*	**How does matter change?**	TSW understand that matter has different properties and that properties of matter can change	2.2a, 2.2d, 2.2e, 2.2f, 2.5a, 2.5b, 2.5c, 2.5d
7th: Sept 19-23 *(5 days)*	**How does matter change?** **Continued**	TSW learn that matter has different properties and that properties of matter can change	2.2a, 2.2d,2.2e, 2.2f, 2.5a, 2.5b, 2.5c, 2.5d
8th: Sept 26-30 *(5 days)*	**How can water change states?**	TSW compare changes in water caused by heating and cooling	2.2a, 2.2b,2.2d, 2.2e, 22f, 2.5b
9th: Oct 3-7 *(5 days)*	**Unit 4: " Energy, Motion and Magnets". What is energy?**	**1st Benchmark** TSW learn that there are different forms of energy	2.2a, 2.2b, 2.2d, 2.2e, 2.6a
10th: Oct 10-14 *(5 days)*	**What are forces?**	TSW learn that forces cause changes	2.2a, 2.2b, 2.2d, 2.2e, 2.6c, 2.6d

2nd Quarter (39 Days)			
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Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st: Oct 17-21 *(5 days)*	**What are magnets?**	TSW observe and demonstrate that magnets can move objects without touching them	2.2a, 2.2b, 2.2d, 2.2e, 2.4a, 2.6b
2nd: Oct 24-28 *(5 days)*	**How strong is a magnet?**	TSW recognize that a magnetic field passes only through certain materials	2.2a, 2.2b, 2.2d, 2.2e, 2.4a
3rd: Oct 31- Nov 4 *(5 days)*	**Unit 5:" Earth and its resources"** **What are rocks?**	TSW recognize that Earth's surface is made of rock, explain that rocks are made of minerals. They will describe rocks by size, texture, and color.	2.2a, 2.2b, 2.2d, 2.7a
4th: Nov 7-11 *(5 days)*	**What are sources of water?**	TSW compare and identify properties of natural resources of fresh water and salt water	2.7 b

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5th: Nov 14-18 *(5 days)*	**What are resources?**	TSW distinguish between natural and man made resources, and identify ways people use natural resources.	2.1c, 2.7c
6th: Nov 28- Dec 2 *(5 days)*	**How can we save resources?**	TSW describe ways in which to help the environment and conserve resources	2.1c
7th: Dec 5-9 *(5 days)*	**Unit 6:" All about weather"** **How does weather change?**	**2nd Benchmark** TSW recognize weather patterns and explain how living things adjust to them	2.2a, 2.2b, 2.2d, 2.2e, 2.2f, 2.4a, 2.8a, 2.8c
8th: Dec 12-16 *(5 days)*	**What is evaporation?**	TSW understand the process of the water cycle	2.2a, 2.2b, 2.2c, 2.2d, 2.2e, 2.2f, 2.8c

3rd Quarter (46 Days)			
Resources: **Science Fusion (2015) Houghton Mifflin**			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st : Jan 3-6 *(4 days)*	**Unit 7: " The solar system"**	TSW determine what objects make up the solar system.	2.8d
2nd: Jan 9-13 *(5 days)*	**What causes day and night.**	TSW understand how the Earth's movement affect seasons and day and night	2.2a, 2.2b, 2.2d, 2.2e, 2.8d
3rd : Jan 17-19 *(3 days)*	**The moon**	TSW identify phases of the moon	2.2a, 2.2b, 2.2d, 2.2e, 2.8d
4th : Jan 23-27 *(5 days)*	**Unit 8:" Animal and plant needs"** **What are animal needs?**	TSW observe, record, and compare how the physical characteristics and behaviors of animals help them meet their basic needs	2.9a, 2.10a
5th: Jan 30-Feb 3 *(5 days)*	**What are plant needs?**	TSW explain that a living thing must meet its basic needs in order to survive	2.2a, 2.2b, 2.2c, 2.2d, 2.2e, 2.9a, 2.9b
6th: Feb 6-10 *(5 days)*	**Unit10:"Environments for living things"** **How do plants and animals need one another**	TSW understand how living organisms are interdependent with their living and non living surroundings	2.9c
7th: Feb 13-17 *(5 days)*	**How are living things adapted to their environments?**	TSW observe how the physical characteristics of plants help them meet their basic needs	2.9b, 2.10a, 2.10b
8th: Feb 21-24 *(5 days)*	**Can plants survive in different environments?**	TSW demonstrate that plants live where their needs are met	2.2a, 2.2b, 2.2c, 2.2d, 2.2e, 2.2f, 2.10b

3rd Quarter (46 Days)			
Resources: **Science Fusion (2015) Houghton Mifflin**			
Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
9th: Feb 27- Mar 3 *(5 days)*	**Unit 10:" Animals and plants characteristics** **What are some kinds of animals?**	**3rd Benchmar** TSW know that the structural characteristics of animals are used to group them	2.10a
10th: Mar 6-10 *(5 days)*	**What are some kinds of animals?**	TSW observe and compare how the physical characteristics and behaviors of animals help them meet their needs.	2.10a

4th Quarter (48 Days)			
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Week	**Unit/Lesson**	**Learning Objectives**	**Reporting Categories (TEKS SEs)**
1st: Mar 20-24 *(5 days)*	**How do body coverings help animals?**	TSW observe how some physical characteristics of animals help them stay warm	2.2a, 2.2b, 2.2d, 2.2e, 2.10a
2nd: Mar 27-31 *(5 days)*	**How can we compare animal life cycles?**	TSW be able to differentiate between animals that look like their offspring and those who don't	2.10c
3rd: Apr 3-7 *(5 days)*	**How can we compare animal life cycles?**	TSW understand the stages of the life cycle for different animals	2.10c
4th: Apr 10-14 *(5 days)*	**Review for Iwoa**	Review for IOWA	Review
5th: April 18-22 *(5 days)*	**IWOA/ITBS complete battery KG-2**	IOWA/ ITBS Complete Battery KG-2	Review
6th: Apr 24- 28 *(5 days)*	**How does a bean plant grow?**	TSW understand how the plants grow	2.2a, 2.2b, 2.2d, 2.2e, 2.4b, 2.10b
7th: May 1-5 *(5 days)*	**What are some plant parts?**	TSW identify the main parts of plants and describe their physical characteristics	2.10b
8th: May 8-12 *(5 days)*	**What are some plant life cycles?**	TSW explain that many plants begin life as a seed	2.10b
9th: May 15-19 *(5 days)*	**What are some plant life cycles?**	**Final Benchmark** TSW distinguish between plants that make seeds in flowers and plants that make seeds in cones.	2.10b
10th: May 22-24 *(3 days)*	**Review and assessment**	Review and assessment	Review and Assessment