

Year at a Glance - First Grade

Science Curriculum						Extensions
6 weeks	Science Topics	TEK Objective	Concepts to Learn	Vocabulary	Lab/ Activities	
1 st	Science Lab Safety Plants Trees	1.1 (a, b) 1.7(d) 1.10 (b, c) 1.3 (c)	1) Plants need water, air, nutrients, and light to grow. 2) Scientists use journals to record their observations. 3) As plants grow, they develop roots, stems, leaves, buds, flowers and seeds in a sequence called a life cycle.	Stamen Fruit Vegetable Pistil Germination Seed Sprout Seed coat Embryo	Lab Safety/Scientific Tools AIMS- Parts of a Seed (Lima Bean) Pumpkin Preservation Experiment Foss Kit: New Plants Investigation1 – Brassica Seeds Investigation2 – Grass and Grain Seeds	
2 nd	Bones Bats	1.7(d) 1.3 (a) 1.9 (b) 1.4 (a) 1.2 (c)	1) Calcium contributes to healthy bone growth. 2) Animals can be divided into two groups; vertebrates and invertebrates. 3) Vertebrates are animals that have a backbone; invertebrates are animals with no backbone.	Calcium Bones Vertebrate & invertebrate Echolocation Nocturnal/Diurnal	Build a habitat for a Betta fish AIMS- microbats/megabats	
3 rd	Weather Seasons Matter Polar Animals	1.7 (c) 1.8 (a, c, d) 1.5 (a, b) 1.3 (b) 1.4 (a)	1) Air is matter. 2) Air takes up space. 3) Air interacts with objects. 4) Air is a gas. 5) Clouds are made of water drops and form in the sky. 6) There are three different types of clouds. 7) Matter takes up space. 8) Weather is the condition of the atmosphere at a given time.	Evaporation, gas, air, pressure, compress, propel, thermometer, rain gauge, camouflage, blubber, matter	Foss kit- Air and Weather Investigation 1-Exploring Air Investigation 2- Observing Weather Aims (Primarily Physics)- Melt an Ice Cube	
4 th	Balance/Motion Magnets	1.2 (b) 1.6 (a, b, c, d)	1) Motion occurs when objects are pushed or pulled. 2) The position of an object can be described by relating its location to another object. 3) A stable position is one that is steady. 4) Objects and systems that turn on a central axis exhibit rotational motion. 5) Magnets can be used to push or pull objects.	Mass, rotational motion, balance, counterbalance, axis, attract, push inertia, repel, pull, motion, iron, steel	Foss Kit- Balance and Motion Investigation 1- Balance Investigation 2- Spinners Magnet activity	
5 th	Rocks/Soil Natural resources Living/Nonliving	1.9(a) 1.7 (a, b, c) 1.1 (c)	1) The natural world includes rocks, soil, and water that can be observed in cycles, patterns, and systems. 2) Soil can be sorted by size, texture, and color.	Screens, water, sort, clay, silt, sand, gravel, pebbles, particles, cobbles, boulders, chemical weathering, physical weathering	Foss Kit- Pebbles, Sand, and Silt: Investigation 2: River Rocks Collect different types of soil from the playground and plant bean sprouts in each type.	
6 th	Insects Life Cycles	1.10 (a), (c), (d) 1.4 (b) 1.2 (a) 1.9 (c)	1) Insects need air, food, water, and space. 2) The life cycle of the beetle is egg, larva, pupa, and an adult. 3) There are three parts of an insect. 4) Insects hatch from eggs. 5) Insects and other animals have different structures that help them grow and survive.	Head, thorax, abdomen, egg, larva, pupa, adult, organisms, nymph stage,	Foss Kit- Insects Investigation1- Mealworms Investigation 2- Wax Worms Investigation 3- Milkweed bugs	