Merrick UFSD: Science Units of Study 2023-2024

Grade	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
K	**Earth Science** ***Weather and Climate*** The Sun Warms Earth, Sunny/Cloudy, Windy Weather, Wet Weather, Weather Patterns, Thunderstorms/Tornadoes, Hurricanes/Blizzards, Predicting Weather			**Physical Science** ***Pushes and Pulls:*** How Things Move, Hard Push/Soft Push, Weak Pull/Strong Pull, Starting/Stopping, Changing Direction, Changing Speed				**Life Science** ***Interdependent Relationships in Ecosystems*** Living Things, What Plants Need, What Animals Need, Where Things Live, People Use Resources		
1	**Earth Science** ***Space Systems: Patterns and Cycles*** The Sun, Day/Night, The Moon, Stars, Star Patterns, The Night Sky, Seasons			**Physical Science** ***Waves: Light and Sound*** Sound, Vibration, Light and Dark, Light Shining Through, Communication			**Life Science** ***Structure, Function and Information Processing: Plants and Animals*** Plants, Young Plants and Young Animals Look Like Their Parents, How are Plants Alike and Different, How are Animals Alike and Different, External Parts that Help Plants and Animals Survive and Grow			
2	**Physical Science** ***Structure and Properties of Matter*** Solids, Liquids, Properties, Color, Texture, Hard/Soft, Bend/Stretch, Sink/Float, Cooling, Heating			**Earth Science** ***Earth's Systems: Processes That Shape The Earth*** Earthquakes, Volcanoes, Weathering/Erosion, Wind and Water Change land, Rivers/Oceans, Lakes/Ponds, Ice on Earth				**Life Science** ***Interdependent Relationships in Ecosystems*** What Plants Need, Animals Pollinate Flowers, Animals Spread Seeds, Living Things Are Everywhere (Coast, Wetlands, Grasslands)		
3	**Physical Science** ***Forces and Interactions*** Pushes/Pulls, Balanced and Unbalanced Forces, Motion, Magnets, Electric Forces			**Earth Science** ***Weather and Climate*** Weather Patterns, Weather Measurement, Seasonal Changes, Climate, Weather Hazards			**Life Science** ***Interdependent Relationships in Ecosystems:*** Ecosystems, Forests Change, Changes in Temperature, People Change Land and Ecosystems, Living in Groups, Getting Food, Protection/Defense ***Life Cycles and Traits:*** Life cycles of plants, ladybugs and frogs, Acquired Traits, Variation and Survival NYS Investigation: Circle of Life			
4	**Earth Science** ***Earth's Systems: Processes That Shape The Earth*** Weathering, Erosion/Deposition, Wind, Water and Ice Change The Land, Natural Hazards, Patterns of Water and Land Features			**Physical Science** ***Energy/Waves*** Speed, Motion, Light, Heat, Electric Circuits, Energy Resources, Wavelengths, Information Technology NYS Investigation: Light It Up				**Life Science** ***Structure, Function and Information Processing*** External/Internal Features of Elephants and Flowers, Animals Senses NYS Investigation: Cloud in a Bottle		
5	**Physical Science** ***Structure and Properties of Matter*** States and Properties of Matter, Hardness, Magnetism, Electrical Conductivity, Solubility, Mixtures, Heating/Cooling, Chemical Changes NYS Investigation: What's in the Bag?			**Life Science** ***Matter and Energy in Organisms and Ecosystems*** What Plants Need, How Plants Get Energy, Hydroponics, Why Animals Need Food, Desert Food Chain and Food Web, Decomposers, Tallgrass Prairie Ecosystem, Grassland Populations, Invasive Species NYS Investigation: Light It Up			**Earth Science/Test Prep (Test Date: 5/15/23)** ***Earth Systems:*** The Geosphere, Hydrosphere, Atmosphere, Biosphere, Interaction of Earth's Systems, Ocean Ecosystems, Oceans Shape Land and Influence Climate, Landforms and Weather Patterns, Water on Earth, Earth's Resources, Human Impact, Protecting Land, Air and Water, Renewable Energy Resources ***Space Systems: Stars and Solar System:*** Gravity, The Sun, Day/Night, Apparent Motion, Revolution and the Seasons, Earth's Orbit and the Night Sky, Moon Motions and Phases			

6	**Life Science** ***Systems, Reproduction and Growth*** The Cell System, Human Body Systems, Reproduction and Growth NYS Investigation: It's Alive	**Life Science** ***Diversity of Life*** Genes and Heredity, Natural Section and Change Over Time	**Physical Science** ***Structures and Properties of Matter*** Matter, Solids/Liquids/Gases NYS Investigation: All Mixed Up	**Physical Science** ***Forces*** Forces and Motion; Electricity and Magnetism