

Lake Farmpark Grade Level Indicators

Fourth Grade	Ice Cream (Outreach)	Biodiversity Bonanza (outreach)	Barnyard Goes to School (Outreach)	Crops and Critters	Simple Machines	Energy from the Sun	Beehives to Plant Lives	From sun to You	Hay to Whey	Grist for the Meal	Pizza Farm	Ice Cream
Earth												
1. Explain that air surrounds us, takes up space, moves around us as wind, and may be measured as barometric pressure.						X						
2. Identify how water exists in the air in different forms (e.g., in clouds, fog, rain, snow and hail).												
3. Investigate how water changes from one state to another (e.g., freezing, melting, condensation, evaporation).	X											X
4. Describe weather by measurable quantities such as temperature, wind direction, wind speed, precipitation, and barometric pressure.						X						
5. Record local weather information on a calendar or map and describe changes over a period of time (e.g., barometric pressure, temperature, precipitation symbols, cloud conditions).												
6. Trace how weather patterns generally move from west to east in the United States.												
7. Describe the weather which accompanies cumulus, cumulonimbus, cirrus and stratus clouds.												

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Earth (Continued)												
8. Describe how wind, water and ice shape and reshape Earth's land surface by eroding rock and soil in some areas and depositing them in other areas producing characteristic landforms (e.g., dunes, deltas, glacial moraines).												
9. Identify and describe how freezing, thawing and plant growth reshape the land surface by causing the weathering of rock.												
10. Describe evidence of changes on Earth's surface in terms of slow processes (e.g., erosion, weathering, mountain building, deposition) and rapid processes (e.g. volcanic eruptions, earthquakes, landslides).			X									
Life												
1. Compare the life cycles of different plants including germination, maturity, reproduction and death.			X		X	X						
2. Relate plant structures to their specific functions (e.g., growth, survival and reproduction).	X		X		X	X			X			

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Life (Continued)												
3. Classify common plants according to their characteristics (e.g., tree leaves, flowers, seeds, roots, stems).	X			X			X	X			X	
4. Observe and explore that fossils provide evidence about plants that lived long ago and the nature of the environment at that time.												
5. Describe how organisms interact with one another in various ways (e.g., many plants depend on animals for carrying pollen or dispersing seeds).							X	X			X	
Physical												
1. Identify characteristics of a simple physical change (e.g., heating or cooling can change water from one state to another and the change is reversible).	X								X		X	X
2. Identify characteristics of a simple chemical change. When a new material is made by combining two or more materials, it has chemical properties that are different from the original materials (e.g., burning paper, vinegar and baking soda).	X	X							X		X	

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Physical (Continued)												
3. Describe objects by the properties of the materials from which they are made and that these properties can be used to separate or sort a group of objects (e.g., paper, glass, plastic, metal).												
4. Explain that matter has different states (e.g., solid, liquid and gas) and that each state has distinct physical properties.	X			X					X			X
5. Compare ways the temperature of an object can be changed (e.g., rubbing, heating, bending of metal).	X											X

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Science and Technology												
1. Explain how technology from different areas (e.g., transportation, communication, nutrition, healthcare, agriculture, entertainment, manufacturing) has improved human lives.	X	X	X	X	X	X	X	X	X	X	X	X
2. Investigate how technology and inventions change to meet peoples' needs and wants.	X	X	X	X	X	X	X	X	X	X	X	X
3. Describe, illustrate and evaluate the design process used to solve a problem.				X	X	X						
Scientific Inquiry												
1. Select the appropriate tools and use relevant safety procedures to measure and record length, weight, volume and area in metric and English units.			X	X	X	X	X	X	X	X	X	X
2. Analyze a series of events and/or simple daily or seasonal cycles, describe the patterns and infer the next likely occurrence.				X		X						
3. Develop, design and conduct safe, simple investigations or experiments to answer questions.				X		X	X	X	X	X	X	X

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Scientific Inquiry (continued)												
4. Explain the importance of keeping conditions the same in an experiment.				X	X	X	X	X				
5. Describe how comparisons may not be fair when some conditions are not kept the same between experiments.				X	X	X	X	X				
6. Formulate instructions and communicate data in a manner that allows others to understand and repeat an investigation or experiment.				X	X	X	X	X				
Scientific Ways of Knowing												
1. Differentiate fact from opinion and explain that scientists do not rely on claims or conclusions unless they are backed by observations that can be confirmed.				X				X				
2. Record the results and data from an investigation and make a reasonable explanation.		X	X	X	X	X	X	X				
3. Explain discrepancies in an investigation using evidence to support findings.					X	X	X	X				
4. Explain why keeping records of observations and investigations is important.				X	X	X	X	X				