Science Scope and Sequence
Unit 3

7.1.1A

Demonstrate safe practices during field and laboratory investigations

7.1.2A

Plan and implement investigative procedures including asking questions, formulating testable hypotheses, and selecting and using equipment and technology

7.1.2B

Collect data by observing and measuring

7.1.2C

Organize, analyze, make inferences, and predict trends from direct and indirect evidence

7.1.2D

Communicate valid conclusions

7.1.2E

Construct graphs, tables, maps, and charts using tools including computers to organize, examine, and evaluate data

7.1.3A

Analyze, review, and critique scientific explanations, including hypothesis and theories, as to their strengths and weaknesses using scientific evidence and information

7.1.3C

Represent the natural world using models and identify their

Limitations

7.1.4A

Collect, analyze, and record information to explain a phenomenon using appropriate tools including beakers, Petri dishes, meter sticks, graduated cylinders, weather instruments, hot plates, dissecting equipment, test tubes, safety goggles, spring scales, balances, microscopes, telescopes, thermometers, calculators, field equipment, computers, computer probes, timing devices, magnets, and compasses.

7.4.6A

Demonstrate basic relationships between force and motion using simple machines including pulleys and levers

7.4.6B

Demonstrate that an object will remain at rest or move at a constant speed and in a straight line if it is not being subjected to an unbalanced force

7.4.6C

Relate forces to basic process in living organisms including the flow of blood and the emergence of seedlings

7.4.8A

Illustrate examples of potential and kinetic energy in everyday life such as objects at rest, movement of geologic fault, and falling water