# WET Correlations: SCIENCE GRADE 3

## Grade 3 : Embedded Inquiry

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.Inq.1** Explore different scientific phenomena by asking questions, making logical predictions, planning investigations, and recording data.<br><br>**GLE 0307.Inq.2** Select and use appropriate tools and simple equipment to conduct an investigation.<br><br>**GLE 0307.Inq.3** Organize data into appropriate tables, graphs, drawings, or diagrams.<br><br>**GLE 0307.Inq.4** Identify and interpret simple patterns of evidence to communicate the findings of multiple investigations.<br><br>**GLE 0307.Inq.5** Recognize that people may interpret the same results in different ways.<br><br>**GLE 0307.Inq.6** Compare the results of an investigation with what scientists already accept about this question. | **0307.Inq.1** Identify specific investigations that could be used to answer a particular question and identify reasons for this choice.<br><br>**0307.Inq.2** Identify tools needed to investigate specific questions.<br><br>**0307.Inq.3** Maintain a science notebook that includes observations, data, diagrams, and explanations.<br><br>**0307.Inq.4** Analyze and communicate findings from multiple investigations of similar phenomena to reach a conclusion. | **Adventures in Density (25)**<br>**H2 Olympics (30)**<br>**Life in the Fast Lane (79)**<br>**The Rainstick (442)**<br>**Sparkling Water (348)**<br>**Stream Sense (191)**<br>**wAteR in moTion (450)**<br>**Water Meter (271)**<br>**What's the Solution? (54)** |

# Grade 3 : Embedded Technology & Engineering

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.T/E.1** Describe how tools, technology, and inventions help to answer questions and solve problems.<br><br>**GLE 0307.T/E.2** Recognize that new tools, technology, and inventions are always being developed.<br><br>**GLE 0307.T/E.3** Identify appropriate materials, tools, and machines that can extend or enhance the ability to solve a specified problem.<br><br>**GLE 0307.T/E.4** Recognize the connection between scientific advances, new knowledge, and the availability of new tools and technologies.<br><br>**GLE 0307.T/E.5** Apply a creative design strategy to solve a particular problem generated by societal needs and wants. | **0307.T/E.1** Explain how different inventions and technologies impact people and other living organisms.<br><br>**0307.T/E.2** Design a tool or a process that addresses an identified problem caused by human activity.<br><br>**0307.T/E.3** Determine criteria to evaluate the effectiveness of a solution to a specified problem.<br><br>**0307.T/E.4** Evaluate an invention that solves a problem and determine ways to improve the design. | |

# Grade 3 : Standard 1 - Cells

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.1.1** Use magnifiers to make observations of specific plant and body parts and describe their functions. | **0307.1.1** Use a magnifier to investigate and describe the function of root hairs, stem cross sections, and leaf veins.<br><br>**0307.1.2** Use a magnifier to investigate and describe the function of skin pores, hair follicles, finger nails, veins, and cuticles, etc. | |

# Grade 3 : Standard 2 - Interdependence

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.2.1** Categorize things as living or non-living. | **0307.2.1** Use a T-Chart to compare and contrast the characteristics of living and nonliving things. | |
| **GLE 0307.2.2** Explain how organisms with similar needs compete with one another for resources. | **0307.2.2** Label a drawing of an environment to illustrate interrelationships among plants and animals.<br><br>**0307.2.3** Construct a diagram to demonstrate how plants, animals, and the environment interact to provide basic life requirements. | |

# Grade 3 : Standard 3 - Flow of Matter and Energy

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.3.1** Describe how animals use food to obtain energy and materials for growth and repair. | **0307.3.1** Label a diagram to illustrate the food relationships that exist between plant and animals.<br><br>**0307.3.2** Create a chart to show how plants and animals satisfy their energy requirements.<br><br>**0307.3.3** Identify structures used by different plants and animals to meet their basic energy requirements.<br><br>**0307.3.4** Use a piece of text to obtain basic information about how plants and animals obtain food. | |

# Grade 3 : Standard 4 - Heredity

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.4.1** Identify the different life stages through which plants and animals pass.<br><br>**GLE 0307.4.2** Recognize common human characteristics that are transmitted from parents to offspring. | **0307.4.1** Sequence diagrams that illustrate various stages in the development of an organism.<br><br>**0307.4.2** Create a timeline to depict the changes that occur during an organism's life cycle.<br><br>**0307.4.3** Differentiate among the stages in the life cycle of a butterfly, mealworm, frog, and plant.<br><br>**0307.4.4** Draw conclusions about the similarities and differences between parents and their offspring<br><br>**0307.4.5** Make a list of human characteristics that are transmitted from parents to their offspring. | |

# Grade 3 : Standard 5 - Biodiversity and Change

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.5.1** Explore the relationship between an organism's characteristics and its ability to survive in a particular environment.<br><br>**GLE 0307.5.2** Classify organisms as thriving, threatened, endangered, or extinct. | **0307.5.1** Create representations of animals that have characteristics necessary to survive in a particular environment.<br><br>**0307.5.2** Investigate the connection between an organism's characteristics and its ability to survive in a specific environment.<br><br>**0307.5.3** Describe how environmental factors change over place and time.<br><br>**0307.5.4** Determine how changes in an environmental variable can affect plants and animals of an area.<br><br>**0307.5.5** Construct a diorama that shows plants and animals in an appropriate environment.<br><br>**0307.5.6** Identify evidence used to determine the previous existence of an organism.<br><br>**0307.5.7** Use a data chart or informational text to classify organisms as thriving, threatened, endangered, or extinct. | **Life in the Fast Lane (79)**<br>**Macroinvertebrate Mayhem (322)**<br>**Salt Marsh Players (99)**<br>**Stream Sense (191)**<br>**Water Address (122)** |

# Grade 3: Standard 6 - Omitted

# Grade 3 : Standard 7 – The Earth

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.7.1** Use information and illustrations to identify the earth's major landforms and water bodies.<br><br>**GLE 0307.7.2** Recognize that rocks can be composed of one or more minerals.<br><br>**GLE 0307.7.3** Distinguish between natural and manmade objects. | **0307.7.1** Use a Venn diagram to compare and contrast two different landforms or bodies of water.<br><br>**0307.7.2** Analyze the physical characteristics of different kinds of rocks.<br><br>**0307.7.3** Use a magnifier to observe, describe, and compare materials to determine if they are natural or manmade.<br><br>**0307.7.4** Design and evaluate a method for reusing or recycling classroom materials. | |
| **GLE 0307.7.4** Design a simple investigation to demonstrate how earth materials can be conserved or recycled. | **0307.7.5** Create a web that demonstrates the link between basic human needs and the earth's resources. | **A-maze-ing Water (219)**<br>**Aqua Notes (66)**<br>**A Drop in the Bucket (238)**<br>**Every Drop Counts (307)**<br>**The Long Haul (260)**<br>**Money Down the Drain (328)**<br>**Pass the Jug (392)**<br>**Reaching Your Limits (344)**<br>**Water Meter (271)**<br>**Water Works (274)** |

# Grade 3 : Standard 8 - The Atmosphere

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.8.1** Recognize that that there are a variety of atmospheric conditions that can be measured.<br><br>**GLE 0307.8.2** Use tools such as the barometer, thermometer, anemometer, and rain gauge to measure atmospheric conditions.<br><br>**GLE 0307.8.3** Identify cloud types associated with particular atmospheric conditions.<br><br>**GLE 0307.8.4** Predict the weather based on cloud observations. | **0307.8.1** Select appropriate tools used for collecting weather data that correspond to the atmospheric condition being measured.<br><br>**0307.8.2** Identify major cloud types and associate them with particular weather conditions. | |

# Grade 3 : Standard 9 - Matter

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.9.1** Design a simple experiment to determine how the physical properties of matter can change over time and under different conditions. | **0307.9.1** Use physical properties to compare and contrast substances.<br><br>**0307.9.3** Make predictions and conduct experiments about conditions needed to change the physical properties of particular substances. | **Adventures in Density ( 25)**<br>**H2 Olympics (30)**<br>**Water Match (50)** |
| **GLE 0307.9.2** Investigate different types of mixtures. | **0307.9.2** Compare and contrast events that demonstrate evaporation, crystallization, and melting. | **What's the Solution? (54)** |

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|---|---|---|
| | **0307.9.4** Classify combinations of materials according to whether they have retained or lost their individual properties. | |
| **GLE 0307.9.3** Describe different methods to separate mixtures. | **0307.9.5** Investigate different ways to separate mixtures such as filtration, evaporation, settling, or using a sieve. | **Sparkling Water (348)** |

# Grade 3 : Standard 10 - Energy

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.10.1** Investigate phenomena that produce heat.<br><br>**GLE 0307.10.2** Design and conduct an experiment to investigate the ability of different materials to conduct heat. | **0307.10.1** Associate the sun's energy with the melting of an ice cube placed in a window.<br><br>**0307.10.2** Investigate various materials to explore heat conduction. | |

# Grade 3 : Standard 11 - Motion

| Learning Expectations | Checks for Understanding | Project WET Correlations |
|---|---|---|
| **GLE 0307.11.1** Explore how the direction of a moving object is affected by unbalanced forces.<br><br>**GLE 0307.11.2** Recognize the relationship between the mass of an object and the force needed to move it. | **0307.11.1** Plan an investigation to illustrate how changing the mass affects a balanced system. | |
| **GLE 0307.11.3** Investigate how the pitch and volume of a sound can be changed. | **0307.11.2** Use a variety of materials to produce sounds of different pitch and volume.<br><br>**0307.11.3** Classify a variety of taped sounds according to their pitch and volume. | **The Rainstick (442)**<br>**wAteR in moTion (450)** |