**Science 6 Course Outline**

 ****

**Skills Developed in Science:**

* Designing and carrying out investigations
* Learn the importance of accuracy in observation and measurement
* Ask questions that lead to exploration and investigation
* Create predictions or hypotheses
* Identify more than one way of finding an answer
* Plan and carry out procedures
* Identify manipulated, constant, and responding variables
* Work individually and cooperatively
* State an inference based on results and identify applications of what was learned

**Assessment:**

Students will be assessed in a variety of ways such as:

* Vocabulary quizzes
* Unit tests
* Observation during in class activities and experiments
* One-on-one interviews with the teacher
* Projects

***There are 2 categories of assignments in Gradebook: Formative and Summative***

Formative: These assignments are not worth marks but are a significant indicator of where a child stands in understanding a particular concept. These are the assignments and activities which lead a child to being assessed summatively.

Summative: These are end of unit assignments that contribute to the student’s final grade.

**Unit Overview** *(see weebly for more information)*

**Unit 1: Evidence and Investigation**

Students learn to observe and interpret what they see by investigating evidence of human and animal activity. They will explore different environments, learn to pose questions, devise investigations recognize patterns and discrepancies, and think logically about what they observe.

**Unit 2: Sky Science**

Students will learn about the day and night sky, including the characteristics of stars, moons, and planets. Students will also learn seasonal cycles and Earth’s role in this universe.

**Unit 3: Air and Aerodynamics**

Students learn the characteristics of air and the interaction between moving air and solids. They also learn that moving air can support solid materials in flight and study the adaptations that make flight possible in birds and airplanes.

**Unit 4: Flight**

Building from their knowledge of aerodynamics, students design, build, and test a variety of flying devices. They learn about the parts of an aircraft, their role in controlled flight, and the differences between aircraft and spacecraft.

**Unit 5: Trees and Forests**

Students learn about trees and their part in the forest ecosystem. They learn to recognize the characteristics of different trees and the interaction between trees and the larger environment. They also become aware of environmental issues and the need for responsible use.