

Ten Themes of Summer – 2009

The following themes will be offered to all children attending the summer programs. These will be presented in a custom manner to each child based on their individual developmental rate. The goal in Science will be to complete one project per week. All projects will be displayed during Science Fair at the end of summer.

Week 1:

Activity Theme: Wonders of Nature. For this week we will venture into insects, rodents, land formations, mosses, trees and birds.

Math Theme: Number properties and Number Operations. Math Facts, estimation, expanded form, and place value. Application of numbers in real world.

Science: Weather and Climates of the world

Week 2:

Activity Theme: All Stars: For this week we will set up sporting games like football, basketball, soccer, water balloons, Frisbee events and such.

Math Theme: Fractions, decimals, percents and ratios as they apply in real life.

Science Theme: Energy: Its type and sources.

Week 3:

Activity Theme: American Spirit Week will focus on respect, cooperation, meeting new challenges, inclusion, pride in yourself and your country.

Math Theme: Data Analysis. Data representation, forms and display techniques, mean, median, mode.

Science theme: States of Matter and their interrelations.

Week 4:

Activity Theme: Creativity: For this week we will provide opportunity for creative problem solving, positive participation, group and individual responsibility.

Math Theme: Creative problem solving. To identify given information, and process. Make your own problems and use strategies to solve.

Science: Scientific methods and instruments.

Week 5:

Activity Theme: Teamwork/Olympic Week: This week will focus on sportsmanship, positive attitude, forming lasting ties with friends

Math Theme: Geometry and visual thinking: Shapes and sizes, 2 and 3 dimensional, lines and angles, use of protractor and compass

Science: Technology as it applies to construction of bridges, huge structures and buildings. Designing and constructing challenges.

Week 6:

Activity Theme: Eco Challenge & Environmental Awareness Week: outdoor survival skills, group challenges (where everyone survives!) respecting the environment, minimum impact, making a contribution, taking action, positive participation.

Math Theme: Measurement: Perimeter and area, units of measurements for capacity, weight, temperature, length and their conversions.

Science Theme: Environmental Science including plant and animal adaptations

Week 7:

Activity Theme: Around The World: Learning about other countries, and appreciate ethnic diversity as in foods, dresses, cultures etc.

Math Theme: Patterns and Functions: Make predictions based on patterns, divisibility, sequences and probability

Science Theme: Human Body: To learn about the internal organs and functions of the most amazing machine in the world.

Week 8:

Activity Theme: Board Games: Children will engage in tournaments of board games such as scrabble, chess, quoridor, sequence etc.

Math Theme: Lines and angles: Children will work on concepts such a parallel lines and perpendicular lines. How these apply in the real world and the Math involved in engineering and design as it relates to lines and angles formed.

Science Theme: Force and work: Various forms of forces and how they interact to produce resultant forces that may or may not cause motion.

Week 9:

Activity Theme: Drawing : Children will work to produce pencil sketches of animals, plants and other 3D objects

Math Theme: Volume and surface area of 3D objects of regular and irregular forms. They will use mathematical as well as physical methods to make measurements.

Science Theme: Careers in Science: Children will learn about various Science fields that grow into careers as they all grow up.

Week 10:

Activity Theme: painting: All participating children will produce a large canvas of art . The process will involve designing, team building, rough draft and final painting to be displayed in front office at ATFS Learning Center.

Math Theme: X-factor: The children will work to understand what a variable means in Mathematics and how it can take various values in various situations. They will use the concept to solve age appropriate simple equations.

Science Theme: Natural disasters : The children will learn the causes and effects of Earthquakes, hurricanes, Tsunamis, and volcanoes