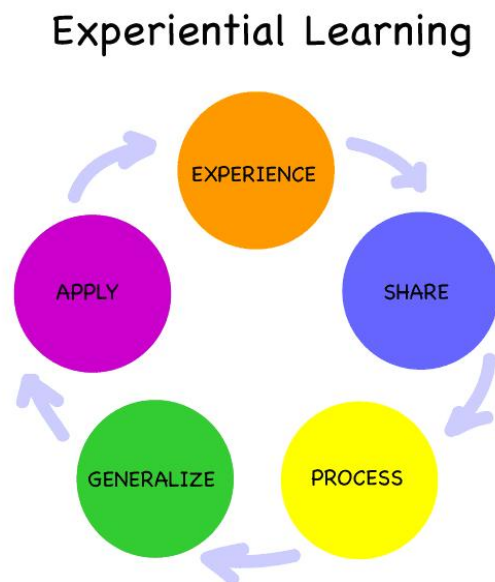


Learn by Doing

- 1) **Astronomy-** Through hands-on projects students will learn about stars, night vision, night activities, the moon, solar system, telescopes, constellations, and sundials.
- 2) **Career Explorations-** Students will build career awareness by stepping into tomorrow.
- 3) **Character Education-** This curriculum will strengthen the character of children through group activities and interaction.
- 4) **Chemistry-** A creative way to explore simple chemical reactions and introduce students to the world of Chemistry.
- 5) **Colors and Light-** Gives children a chance to explore how light bends to make color. They will mix colors and make their own kaleidoscope.
- 6) **Communication Arts-** Students will discover the basics of a good speech and how to do a demonstration.
- 7) **Composting-** Students will see how worms help by eating our garbage.
- 8) **Electricity-** Through hands-on experiments, students will discover how simple circuits and flashlights work through the power of “doing.”
- 9) **Embryology and Poultry-** Students will experience the life cycle from fertilization to hatch.
- 10) **Energy-** By digging for energy, students will discover different types of energy, what types of energy are the best for the environment, and how energy is stored until it is used.
- 11) **Field to You-** All things come from a plant and this program will prove it to you. Students will experiment with the different parts of a plant, force plants to bloom out of season, and have a chance to taste different parts of the plant.
- 12) **Gardens-**
 - City
 - Container
 - Flower
 - Fruits & Vegetables
 - Garbage
 - Hydroponics
 - Junior Master Gardening



- 13) Healthy Lifestyles-** Through play students will learn about nutrition and exercise.
- 14) Healthy Snacks-** Students will create healthy snacks by experimenting with different foods.
- 15) It all Adds up- Economics-** Engages teens in the discovery of money management.
- 16) Kitchen Science-** Making science accessible and fun for children.
- 17) Lasting Impressions- Fossils-** Start thinking like a scientist by collecting data and creating your own fossil imprint.
- 18) Personal Development-** Students will learn how to create a resume and market themselves, to prepare for the future.
- 19) Pet Respect-** The roles of pets in our homes and society will be discovered through interaction. Students will see how pets enhance a persons well being.
- 20) Recycling-** Students will dive into recycling. They will learn about reducing, reusing, and recycling through fun hands-on activities.
- 21) Rocketry-** Students will receive lessons in motion, gravity, and aerodynamics send students' interest soaring. All lessons lead up to the ultimate thrill---building and launching their own 2-liter pop bottle rocket.
- 22) Sewing-** Sewing for all levels. Choose sewing projects that interest you, there are 100's to choose from.
- 23) Water-** Students will explore the water cycle and begin to understand water and how to conserve it.
- 24) Weather-** Students will explore weather. They will investigate how weather works.
- 25) Working Together-** Through team building activities, students will learn how to communicate and work together.
- 26) Volunteerism-** Students will learn about the importance and nature of services done on one's own free will for the benefit of others.



The “learn-by-doing” approach allows youth to experience something with minimal guidance from an adult. Instead of being told “the answers,” they are presented with a question, problem, situation, or activity that they must make sense of for themselves. Learning by doing is called “experiential learning” because it is based on learning from experiences.

-Keith G. Diem, Ph.D.

Call Kandis Freer at the 4-H office
518-272-4210 ext. 106
for more information about the after school program or to see the complete
4-H curriculum.