

# Life Science

Explore and Discover



## Gardening

The concepts learned while gardening can show kids a deep respect and responsibility for taking care of our planet.

Furthermore, studies show that when children have contact with soil during activities like digging and planting, they have improved moods, better learning experiences and decreased anxiety. Most important, the self-esteem a child gets from eating a perfect cucumber that he grew himself is priceless.

1

### CELLS

The basic unit for life.  
Learning basic facts and structures of the cell.

2

### MICROSCOPE

Develop the skills to use this tool to discover things too small to see without it.

3

### HUMAN BODY

Explore the many systems that make up the human physical experience.



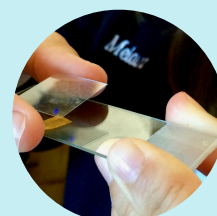
### Lab Skills

Conducting investigations using the scientific method.



### iPad Technology

Creativity and design are enhanced.



### Lab Investigations

Working independently and collaboratively to solve problems.

## Units of Study

- Team Building
- Skills
  - Technology
  - Microscope
- Projects
  - Gardens
  - PBL - Farmer's Market Garden
- Concept Knowledge
  - Hierarchy of the Body Systems
  - Cells
  - Homeostasis
  - Diffusion
- Units of Study - Human Body Systems
  - Skeletal
  - Muscle
  - Digestive
    - PBL - Food For Health
  - Circulatory
  - Nervous
  - Endocrine
  - Urinary
  - Reproductive
  - Senses
- Dissections
  - Frog
  - Pig Heart
  - Cow Eye



- Labs
  - Taste lab
  - Bacteria
  - Cell Types
  - Diffusion

## What is Project Based Learning (PBL)?

**Project Based Learning** is a teaching method in which students gain knowledge and skills by working for an extended period of time to investigate and respond to an authentic, engaging and complex question, problem, or challenge.

## TOOLS, GRADING SCALE & ASSESSMENT

iPad, notebook, journal, pencils, color pencils, metric ruler, watercolors (brushes, paint, paper)

A > 90%	Formative - 40%
B 80% < 90%	Cumulative - 60%
C 70% < 80%	projects
D 60% < 70%	exams
F < 60%	labs

