



Science Curriculum – First Grade

Capital's science curriculum is aligned with state and national standards. Teachers utilize research-based materials and strategies to provide all students with experiences in the life, earth, and physical sciences while developing critical thinking and problem-solving skills. Students will develop an understanding of important science concepts as they demonstrate process skills such as observing, measuring, predicting, and communicating. The science curriculum engages students in hands-on, inquiry-based, integrated units which serve as a foundation for success in an increasingly-complex scientific and technological world.

This year your child's curriculum will include the following:

Cycle One: Air & Weather

- How does weather affect all living things?
- How do weather instruments help to observe weather features?
- How do the senses help provide information about the weather?

EIE Catching the Wind

- What are technologies and who designs them?
- How can the engineering Design Process be used to help solve problems?
- How do Mechanical Engineers observe and think about machines?
- What properties of a sail affect how well it catches the wind?
- How can we use what we know about materials and their properties, our creativity, and the engineering design process to design windmill blades that catch the wind?

Cycle Two: Solids & Liquids

- Which physical properties determine if something is a solid or liquid?
- How do the physical properties of solids and liquids determine their use?
- How do the similarities and differences of a solid or a liquid determine how they should be sorted and grouped?
- How do the senses provide information about the physical properties of a solid or a liquid?

Cycle Three: Organisms

- How do organism's structures help them survive in their environment?
- How do organisms change their environment over time?

- What do living organisms need for survival?
- What are the stages that living organisms go through in their life cycles?

For more information about your child's Science curriculum, please contact your child's teacher or call the Curriculum Office at 857-4228.