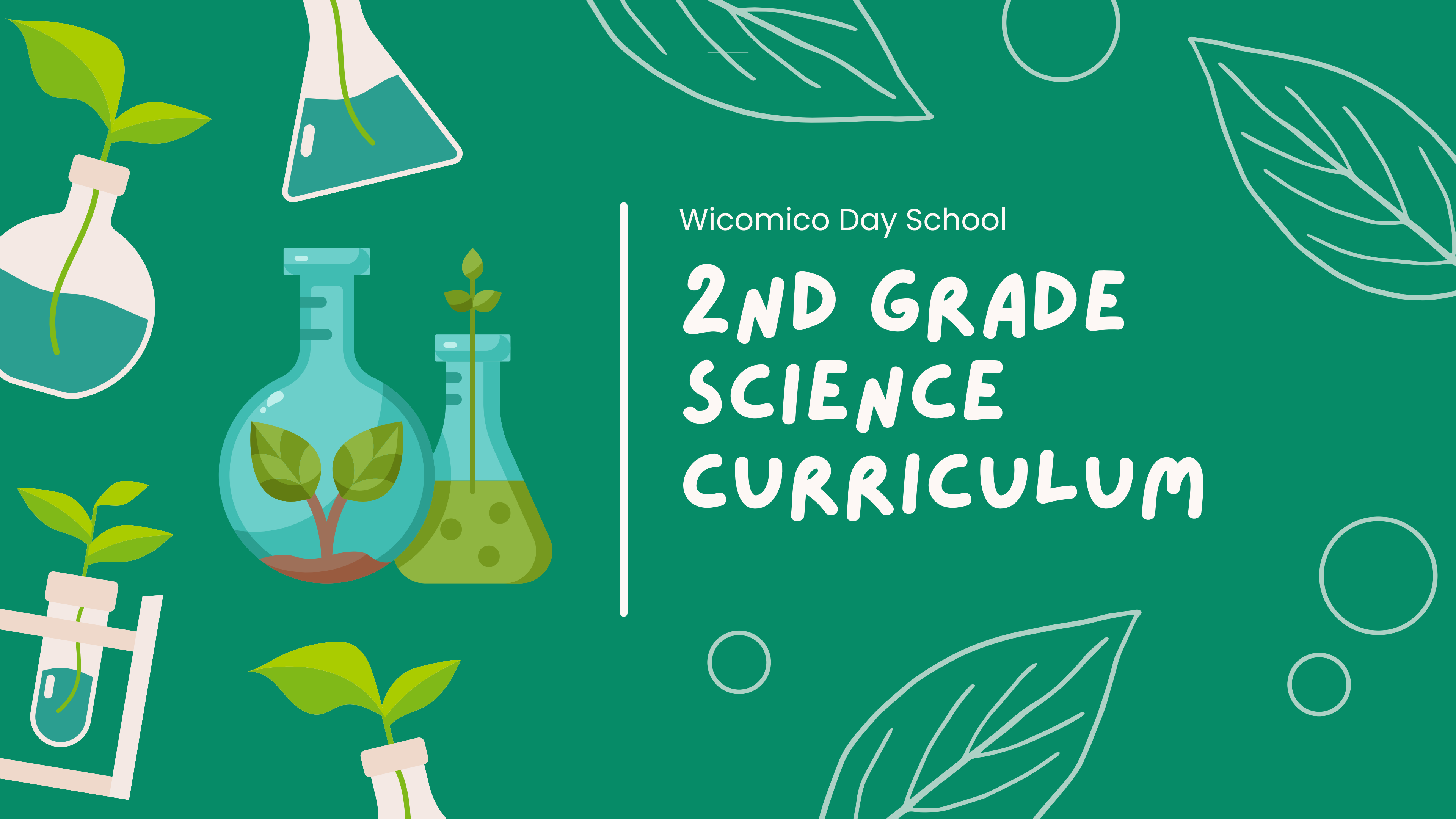




Wicomico Day School

2ND GRADE SCIENCE CURRICULUM



INVESTIGATING THE PHYSICAL PROPERTIES OF MATTER

- Describing what scientists do
 - Classifying matter as living or non-living
 - Identifying human-made and natural objects
 - Sorting objects by the material from which they are made
 - Observing and naming solids, liquids, and gases
 - Describing the characteristics of solids
 - Describing the color, luster, and texture of solids
 - Describing the hardness, flexibility, and buoyancy of solids
 - Measuring the mass of a solid
 - Identifying and describing the properties of liquids
 - Identifying and describing the properties of gases
 - Observing how matter changes state
 - Describing the transparency of matter
 - Identifying matter attracted to magnets; Exploring magnetic attraction
 - Identifying different types of magnets
 - Identifying and naming the magnetic poles of magnets
 - Demonstrating that like poles repel and unlike poles attract
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OBSERVING ROCKS AND MINERALS

- Classify rocks by size; Observe and describe the physical properties of a rock
- Describing the physical properties of minerals
- Comparing the hardness of minerals
- Observing the crystal structure of the mineral halite
- Identifying the minerals in granite





INVESTIGATING FORCES AND WORK

- Demonstrating how the mass of an object affects the amount of force needed to move the object
 - Demonstrating how the strength and the direction of a force affects the movement of the object
 - Identifying gravity as a force
 - Observing and describing the effect of friction on the movement of objects
 - Describing and demonstrating how a lubricant affects friction between two objects
 - Describing and demonstrating work
 - Observing how rollers and wheels make work easier
 - Observing the function of wheels and axles
 - Observing how large wheels make it easier to move over an obstacle
 - Investigating the effects of friction on movement down an inclined plane
 - Investigating how the steepness of an inclined plane affects the distance a toy car travels
 - Investigating what happens when objects of different masses travel down an inclined plane
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EXAMINING SIMPLE MACHINES



- Identifying how inclined planes make work easier
- Describing the characteristics of wedges
- Describing the characteristics of screws
- Comparing nails and screws
- Identifying the function of screws
- Demonstrating how first-class levers function
- Identifying the parts of leversh. Identifying the fulcrum, load, and effort of levers
- Identifying how second- and third-class levers function
- Describing the characteristics of wheels and axles
- Demonstrating how pulleys function
- Identifying and describing machines people use
- Identifying ways to conserve paper and plastic
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EXPLORING SOUND AND LIGHT

- Identifying what causes sound
 - Identifying what causes loud and soft sounds
 - Describing the loudness of sounds
 - Identifying how the environment affects the sounds we hear
 - Describing how human beings hear sounds
 - Describing the pitch of sound
 - Making an instrument that produces various pitches
 - Identifying sources of light
 - Identifying how light travels
 - Identifying the colors in the light spectrum
 - Identifying what determines the colors of objects
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INVESTIGATING BIRDS

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- Identifying prior knowledge of birds
 - Identifying the characteristics of birds
 - Identifying how birds move
 - Identifying the characteristics of birds' bodies
 - Identifying the characteristics of birds' legs and feet
 - Identifying sounds birds make
 - Identifying what birds eat by the shape of their bills
 - Observing birds
 - Using a bird identification guide to identify birds
 - Describing the function and design of birds' nests
 - Describing the characteristics of birds' eggs
 - Describing the characteristics of chicks
 - Describing the characteristics of owls
 - Observing what an owl eats by examining an owl pellet
 - Using reference tools and resources to locate and report information about a bird
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