

Wisconsin Science Standards	ESS Presentations	
Science, Standard C: Science Inquiry		K-2 Product
By the end of grade four, students will:		3-5 Product
C.4.1 Use the vocabulary of the unifying themes to ask questions about objects, organisms, and events being studied	Mysterious Magnets Hot and Cold Living Things Growing Plants Shadows Separating Mixtures Friction Circuits Plant Reproduction Sounds Forces	
C.4.2 Use the science content being learned to ask questions, plan investigations, make observations, make predictions, and offer explanations	Mysterious Magnets Materials Matter Hot and Cold Senses Living Things Springs Growing Plants Rocks Soils Magnets Shadows Separating Mixtures Insulators and Conductors Friction Circuits Plant Reproduction Predicting the Weather Pollution Sounds Gravity Forces	

C.4.3 Select multiple sources of information to help answer questions selected for classroom investigations	
C.4.4 Use simple science equipment safely and effectively, including rulers, balances, graduated cylinders, hand lenses, thermometers, and computers, to collect data relevant to questions and investigations	<p>Growing Plants Weather Springs Soil Changing State</p>
C.4.5 Use data they have collected to develop explanations and answer questions generated by investigations	<p>Materials Matter Mysterious Magnets Hot and Cold Living Things Senses Springs Growing Plants Magnets Rocks Insulators and Conductors Separating Mixtures Friction Plant Reproduction Forces Days and Seasons</p>

<p>C.4.6 Communicate the results of their investigations in ways their audiences will understand by using charts, graphs, drawings, written descriptions, and various other means, to display their answers</p>	<p>Changing Materials Senses Living Things Light and Dark Materials Matter Hot and Cold Springs Growing Plants Rocks Friction Forces Insulators and Conductors Separating Mixtures Plant Reproduction Days and Seasons</p>
<p>C.4.7 Support their conclusions with logical arguments</p>	<p>Materials Matter Hot and Cold Senses Springs Growing Plants Rocks Insulators and Conductors Separating Mixtures Friction Plant Reproduction Days and Seasons</p>
<p>C.4.8 Ask additional questions that might help focus or further an investigation</p>	
<p>Science, Standard D: Physical Science</p>	
<p>By the end of grade four, students will:</p>	
<p>PROPERTIES OF EARTH MATERIALS</p>	

D.4.1 Understand that objects are made of more than one substance, by observing, describing and measuring the properties of earth materials, including properties of size, weight, shape, color, temperature, and the ability to react with other substances	<p>Marvellous Materials Materials Matter Changing Materials Rocks Soil Magnets Changing State Separating Mixtures Gravity</p>
D.4.2 Group and/or classify objects and substances based on the properties of earth materials	<p>Marvellous Materials Materials Matter Changing Materials Magnets Rocks Soil Insulators and Conductors</p>
D.4.3. Understand that substances can exist in different states-solid, liquid, gas	<p>Hot and Cold Changing State</p>
D.4.4 Observe and describe changes in form, temperature, color, speed, and direction of objects and construct explanations for the changes	<p>Hot and Cold Feel the Force Changing State Forces</p>
D.4.5 Construct simple models of what is happening to materials and substances undergoing change, using simple instruments or tools to aid observations and collect data	<p>Changing Materials Hot and Cold Changing State Separating Mixtures</p>
POSITION AND MOTION OF OBJECTS	
D.4.6 Observe and describe physical events in objects at rest or in motion	<p>Feel the Force Forces Friction</p>
D.4.7 Observe and describe physical events involving objects and develop record-keeping systems to follow these events by measuring and describing changes in their properties, including: position relative to another object; motion over time; and position due to forces	<p>Feel the Force Springs Forces Friction</p>
LIGHT, HEAT, ELECTRICITY, AND MAGNETISM	

D.4.8 Ask questions and make observations to discover the differences between substances that can be touched (matter) and substances that cannot be touched (forms of energy, light, heat, electricity, sound, and magnetism)	Mysterious Magnets Magnets Light and Dark Senses Shadows Energy Forms Circuits Electromagnets Sounds Reflection and Refraction
Science, Standard E: Earth and Space Science	
By the end of grade four, students will:	
PROPERTIES OF EARTH MATERIALS	
E.4.1 Investigate that earth materials are composed of rocks and soils and correctly use the vocabulary for rocks, minerals, and soils during these investigations	Rocks Soil
E.4.2 Show that earth materials have different physical and chemical properties, including the properties of soils found in Wisconsin	Rocks Soil
E.4.3 Develop descriptions of the land and water masses of the earth and of Wisconsin's rocks and minerals, using the common vocabulary of earth and space science	
OBJECTS IN THE SKY	
E.4.4 Identify celestial objects (stars, sun, moon, planets) in the sky, noting changes in patterns of those objects over time	Weather Shadows Our Solar System Days and Seasons The Moon
CHANGES IN THE EARTH AND SKY	
E.4.5 Describe the weather commonly found in Wisconsin in terms of clouds, temperature, humidity, and forms of precipitation, and the changes that occur over time, including seasonal changes	Weather Predicting the Weather
E.4.6 Using the science themes, find patterns and cycles in the earth's daily, yearly, and long-term changes	Weather Shadows Days and Seasons The Moon
E.4.7 Using the science themes, describe resources used in the home, community, and nation as a whole	Pollution

E.4.8 Illustrate human resources use in mining, forestry, farming, and manufacturing in Wisconsin and elsewhere in the world	
Science, Standard F: Life and Environmental	
By the end of grade four, students will:	
THE CHARACTERISTICS OF ORGANISMS	
F.4.1 Discover how each organism meets its basic needs for water, nutrients, protection, and energy in order to survive	<p>Living Things Growing Plants Food Chains Habitats Adaptations Body Systems Plant Reproduction Interdependence</p>
F.4.2 Investigate how organisms, especially plants, respond to both internal cues (the need for water) and external cues (changes in the environment)	<p>Growing Plants Adaptations Plant Reproduction</p>
LIFE CYCLES OF ORGANISMS	
F.4.3 Illustrate the different ways that organisms grow through life stages and survive to produce new members of their type	<p>Growing Up Plant Reproduction Adaptations</p>
ORGANISMS AND THEIR ENVIRONMENT	
F.4.4 Using the science themes, develop explanations for the connections among living and non-living things in various environments	<p>Living Things Growing Plants Food Chains Habitats Adaptations Plant Reproduction Interdependence</p>