

## Reading Essentials in Science Correlated to Wisconsin Science Standards Grade Kindergarten

<b>WI.A.</b>	<b>Science Connections: Students in Wisconsin will understand that there are unifying themes: systems, order, organization, and interactions; evidence, models, and explanations; constancy, change, and measurement; evolution, equilibrium, and energy; form and function among scientific disciplines.</b>	
A.4.1.	When conducting science investigations, ask and answer questions that will help decide the general areas of science being addressed.	Building a Birdhouse; (Item: 24160) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 67-69. Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Is This Too Much?; (Item: 24159) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 64-66. Sorting; (Item: 24828) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 64-66. What Will You Use?; (Item: 24830) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 70-72.
A.4.2.	When faced with a science-related problem, decide what evidence, models, or explanations previously studied can be used to better understand what is happening now.	Is This Too Much?; (Item: 24159) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 64-66.
A.4.3.	When investigating a science-related problem, decide what data can be collected to determine the most useful explanations.	Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Is This Too Much?; (Item: 24159) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 64-66.
A.4.4.	When studying science-related problems, decide which of the science themes are important.	Is This Too Much?; (Item: 24159) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 64-66.
A.4.5.	When studying a science-related problem, decide what changes over time are occurring or have occurred.	Is This Too Much?; (Item: 24159) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 64-66.
<b>WI.B.</b>	<b>Nature of Science: Students in Wisconsin will understand that science is ongoing and inventive, and that scientific understandings have changed over time as new evidence is found.</b>	
B.4.1.	Use encyclopedias, source books, texts, computers, teachers, parents, other adults, journals, popular press, and various other sources, to help answer science-related questions and plan investigations.	Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Sorting; (Item: 24828) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 64-66. What Will You Use?; (Item: 24830) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 70-72.
B.4.3.	Show how the major developments of scientific knowledge in the earth and space, life and environmental, and physical sciences have changed over time.	Yesterday and Today; (Item: 24162) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 54-56.
<b>WI.C.</b>	<b>Science Inquiry: Students in Wisconsin will investigate questions using scientific methods and tools, revise their personal understanding to accommodate knowledge, and communicate these understandings to others.</b>	
C.4.1.	Use the vocabulary of the unifying themes to ask questions about objects, organisms, and events being studied.	Building a Birdhouse; (Item: 24160) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 67-69. Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Is This Too Much?; (Item: 24159) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 64-66. Sorting; (Item: 24828) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 64-66. What Will You Use?; (Item: 24830) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 70-72.
C.4.2.	Use the science content being learned to ask questions, plan investigations, make observations, make predictions, and offer explanations.	Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Sorting; (Item: 24828) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 64-66. What Will You Use?; (Item: 24830) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 70-72.

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C.4.3.	Select multiple sources of information to help answer questions selected for classroom investigations.	Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Sorting; (Item: 24828) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 64-66. What Will You Use?; (Item: 24830) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 70-72.
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.	Big and Little; (Item: 24165) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 34-36. Circles All Around; (Item: 24836) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 40-42. How Many Do You See?; (Item: 24834) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 34-36. Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Long and Short of It; (Item: 24166) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 37-39. Shapes in Nature; (Item: 24835) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 37-39. What Will You Use?; (Item: 24830) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 70-72. Which One Doesn't Belong?; (Item: 24167) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 40-42.
C.4.5.	Use data they have collected to develop explanations and answer questions generated by investigations.	Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69.
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.	Big and Little; (Item: 24165) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 34-36. Circles All Around; (Item: 24836) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 40-42. How Many Do You See?; (Item: 24834) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 34-36. Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Long and Short of It; (Item: 24166) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 37-39. Shapes in Nature; (Item: 24835) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 37-39. Which One Doesn't Belong?; (Item: 24167) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 40-42.
C.4.8.	Ask additional questions that might help focus or further an investigation.	Building a Birdhouse; (Item: 24160) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 67-69. Interpreting Data; (Item: 24829) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 67-69. Is This Too Much?; (Item: 24159) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 64-66. Sorting; (Item: 24828) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 64-66. What Will You Use?; (Item: 24830) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 70-72.
<b>WI.D.</b>	<b>Physical Science: Students in Wisconsin will demonstrate an understanding of the physical and chemical properties of matter, the forms and properties of energy, and the ways in which matter and energy interact.</b>	
D.4.1.	Properties of Earth Materials: 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.	Water; (Item: 24157) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 47-49. What Is Made of Wood? (Item: 24156) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 44-46.
D.4.2.	Properties of Earth Materials: Group and/or classify objects and substances based on the properties of earth materials.	Water; (Item: 24157) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 47-49. What Is Made of Wood? (Item: 24156) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 44-46.
D.4.4.	Properties of Earth Materials: Observe and describe changes in form, temperature, color, speed, and direction of objects and construct explanations for the changes.	Baking a Cake; (Item: 24827) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 50-52.

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D.4.5.	Properties of Earth Materials: Construct simple models of what is happening to materials and substances undergoing change, using simple instruments or tools to aid observations and collect data.	Nature's Colors; (Item: 24822) Emergent B Teaching and Assessment Resource (Item: 75876) pp. 14-16. Water; (Item: 24157) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 47-49. What Is Made of Wood? (Item: 24156) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 44-46.
D.4.6.	Position and Motion of Objects: Observe and describe physical events in objects at rest or in motion.	Movement; (Item: 24825) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 44-46.
D.4.7.	Position and Motion of Objects: 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.	Movement; (Item: 24825) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 44-46.
<b>WI.E.</b>	<b>Earth and Space Science: Students in Wisconsin will demonstrate an understanding of the structure and systems of earth and other bodies in the universe and of their interactions.</b>	
E.4.4.	Objects in the Sky: Identify celestial objects (stars, sun, moon, planets) in the sky, noting changes in patterns of those objects over time.	Day Sky; (Item: 24823) Emergent B Teaching and Assessment Resource (Item: 75876) pp. 17-19. Night Sky; (Item: 24154) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 16-18.
E.4.5.	Changes in The Earth and Sky: 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.	Four Seasons; (Item: 24155) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 19-21. Weather Changes; (Item: 24153) Emergent A Teaching and Assessment Resource (Item: 79991) pp. 14-15.
<b>WI.F.</b>	<b>Life and Environmental Science: Students in Wisconsin will demonstrate an understanding of the characteristics and structures of living things, the processes of life, and how living things interact with one another and their environment.</b>	
F.4.1.	The Characteristics of Organisms: Discover how each organism meets its basic needs for water, nutrients, protection, and energy in order to survive.	Big and Little; (Item: 24165) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 34-36. Long and Short of It; (Item: 24166) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 37-39.
F.4.2.	The Characteristics of Organisms: Investigate how organisms, especially plants, respond to both internal cues (the need for water) and external cues (changes in the environment).	Big and Little; (Item: 24165) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 34-36. Long and Short of It; (Item: 24166) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 37-39. Which One Doesn't Belong?; (Item: 24167) Emergent A Titles Teaching and Resource Assessment (Item: 79991) pp. 40-42.

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<b>WI.G.</b>	<b>Science Applications: Students in Wisconsin will demonstrate an understanding of the relationship between science and technology and the ways in which that relationship influences human activities.</b>	
G.4.1.	Identify the technology used by someone employed in a job or position in Wisconsin and explain how the technology helps.	Big Machines, Small Machines; (Item: 24831) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 54-56. Building Roads; (Item: 24833) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 60-62. Nature or Not?; (Item: 24832) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 57-59. Technology in My Life; (Item: 24164) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 60-62. Wheels; (Item: 24163) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 57-59. Yesterday and Today; (Item: 24162) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 54-56.
G.4.4.	Identify the combinations of simple machines in a device used in the home, the workplace, or elsewhere in the community, to make or repair things, or to move goods or people.	Big Machines, Small Machines; (Item: 24831) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 54-56. Wheels; (Item: 24163) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 57-59.
<b>WI.H.</b>	<b>Science Applications: Students in Wisconsin will use scientific information and skills to make decisions about themselves, Wisconsin, and the world in which they live.</b>	
H.4.1.	Describe how science and technology have helped, and in some cases hindered, progress in providing better food, more rapid information, quicker and safer transportation, and more effective health care.	Big Machines, Small Machines; (Item: 24831) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 54-56. Building Roads; (Item: 24833) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 60-62. Technology in My Life; (Item: 24164) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 60-62. Yesterday and Today; (Item: 24162) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 54-56.
H.4.2.	Using the science themes, identify local and state issues that are helped by science and technology and explain how science and technology can also cause a problem.	Big Machines, Small Machines; (Item: 24831) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 54-56. Building Roads; (Item: 24833) Emergent B Titles Teaching and Assessment Resource (Item: 75876) pp. 60-62. Technology in My Life; (Item: 24164) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 60-62. Yesterday and Today; (Item: 24162) Emergent A Titles Teaching and Assessment Resource (Item: 79991) pp. 54-56.