



Exhibit Alignment with SC Science Standards – 7th Grade

Scientific Inquiry

Standard 7-1: The student will demonstrate an understanding of technological design and scientific inquiry, including process skills, mathematical thinking, controlled investigative design and analysis, and problem solving

7 – 1.1 – Use appropriate tools and instruments (including a microscope) safely and accurately when conducting a controlled scientific investigation

- WonderWorks Applicable Exhibits: Pulley Power, Coin Orbiter, MindBall, Space Update

7 – 1.2 – Generate questions that can be answered through a scientific investigation

- WonderWorks Applicable Exhibits: MindBall, Are you a risk taker?, What are the odds?, One In a Million, Anti-Gravity Chamber, Space Weight, Coin Orbiter, Earth Tic-Tac-Toe

7 – 1.3 – Explain the reasons for testing one independent variable at a time in a controlled scientific investigation

- WonderWorks Applicable Exhibits: MindBall, Are you a risk taker?, What are the odds?, One In a Million, Anti-Gravity Chamber, Space Weight, Coin Orbiter, Earth Tic-Tac-Toe

7 – 1.4 – Explain the importance that repeated trials and a well-chosen sample size have with regard to the validity of a controlled scientific investigation

- WonderWorks Applicable Exhibits: Are you a risk taker?, What are the odds?, One In a Million, Safe Crackers

7 – 1.5 – Explain the relationships between independent and dependent variables in a controlled scientific investigation through the use of appropriate graphs, tables, and charts

- WonderWorks Applicable Exhibits: MindBall, Are you a risk taker?, What are the odds?, One In a Million, Safe Crackers

www.wonderworksonline.com



Exhibit Alignment with SC Science Standards – 7th Grade

7 – 1.6 – Critique a conclusion drawn from a scientific investigation

- WonderWorks Applicable Exhibits: Are you a risk taker?, What are the odds?, One In a Million, Safe Crackers, MindBall

7 – 1.7 – Use appropriate safety procedures when conducting investigations

- WonderWorks Applicable Exhibits: Hurricane Wind Shack, Tesla Coil, Virtual Sports, Xtreme 360, Bed of Nails, Ropes Challenge Course

Ecology: The Biotic and Abiotic Environment

Standard 7-4: The student will demonstrate an understanding of how organisms interact with and respond to the biotic and abiotic components of their environment (Earth Science, Life Science)

7 – 4.1 – Summarize the characteristics of the levels of organization within ecosystems (including populations, communities, habitats, niches, and biomes)

- WonderWorks Applicable Exhibits: Earth Tic-Tac-Toe

7 – 4.3 – Explain the interaction among changes in the environment due to natural hazards (including landslides, wildfires, and floods), changes in populations, and limiting factors (including climate and the availability of food and water, space, and shelter)

- WonderWorks Applicable Exhibits: Natural Disasters, Earth Tic-Tac-Toe

7 – 4.5 – Summarize how the location and movement of water on Earth’s surface through groundwater zones and surface-water drainage basins, called watersheds, are important to ecosystems and to human activities

- WonderWorks Applicable Exhibits: Earth Tic-Tac-Toe, Natural Disasters

www.wonderworksonline.com



Exhibit Alignment with SC Science Standards – 7th Grade

7 – 4.6 – Classify resources as renewable or nonrenewable and explain the implications of their depletion and the importance of conservation

- WonderWorks Applicable Exhibits: Earth Tic-Tac-Toe

The Chemical Nature of Matter

Standard 7-5: The student will demonstrate an understanding of the classifications and properties of matter and the changes that matter undergoes (Physical Science)

7 – 5.2 – Classify matter as element, compound, or mixture on the basis of its composition

- WonderWorks Applicable Exhibits: Bubble Lab

7 – 5.9 – Compare physical properties of matter (including melting or boiling point, density, and color) to the chemical property of reactivity with a certain substance (including the ability to burn or rust)

- WonderWorks Applicable Exhibits: Bubble Lab

7 – 5.10 – Compare physical changes (including changes in size, shape, and state) to chemical changes that are the result of chemical reactions (including changes in color or temperature and formation of a precipitate or gas)

- WonderWorks Applicable Exhibits: Bubble Lab