



## **Exhibit Alignment with NC Science Standards – 2<sup>nd</sup> Grade**

**Competency Goal 2: The learner will conduct investigations and use appropriate tools to build an understanding of the changes in weather**

2.01 – Investigate and describe how moving air interacts with objects

- WonderWorks Applicable Exhibits: Pulley Power, Hurricane Wind Shack, Virtual Sports, How high can you Jump?

2.02 – Observe the force of air pressure pushing on objects

- WonderWorks Applicable Exhibits: Pulley Power, Anti-Gravity Chamber, Hurricane Wind Shack, Xtreme 360, Coin Orbiter, Robotic Arms, Alien Stomp Dome, Strike a Pose, Recollections Room

2.03 – Describe weather using quantitative measures of: temperature, wind direction, wind speed, and precipitation

- WonderWorks Applicable Exhibits: Natural Disasters, Hurricane Wind Shack, How Cold Is It?, Tesla Coil

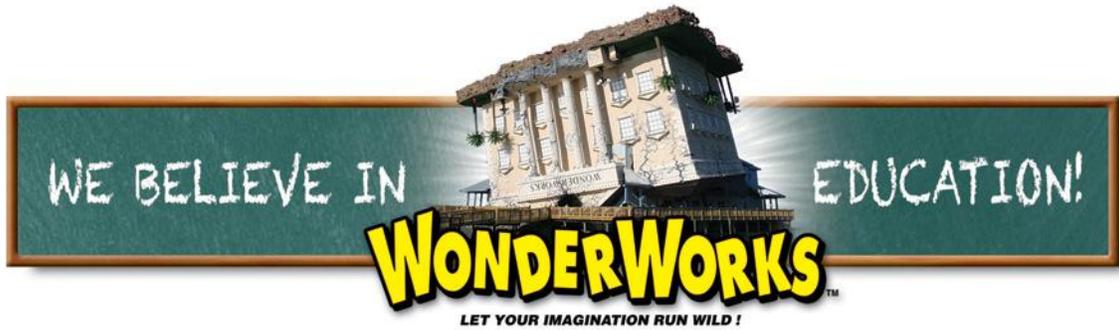
2.04 – Identify and use common tools to measure weather

- WonderWorks Applicable Exhibits: Natural Disasters, How Cold Is It?

2.05 – Discuss and determine how energy from the sun warms the land, air, and water

- WonderWorks Applicable Exhibits: Natural Disasters, How Cold Is It?, Hurricane Wind Shack, Tesla Coil

[www.wonderworksonline.com](http://www.wonderworksonline.com)



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**Competency Goal 3: The learner will observe and conduct investigations to build an understanding of changes in properties**

3.01 – Identify three states of matter: solid, liquid, gas

- WonderWorks Applicable Exhibits: Anti-Gravity Chamber, How Cold Is It?, Bubble Lab

3.02 – Observe changes in state due to heating and cooling of common materials

- WonderWorks Applicable Exhibits: How Cold Is It?, Tesla Coil

3.04 – Show that solids, liquids, and gases can be characterized by their properties

- WonderWorks Applicable Exhibits: How Cold Is It?, Anti-Gravity Chamber, Bubble Lab

3.05 – Investigate and observe how mixtures can be made by combining solids, liquids, or gases and how they can be separated again

- WonderWorks Applicable Exhibits: Bubble Lab

3.06 – Observe that a new material is made by combining two or more materials with properties different from the original material

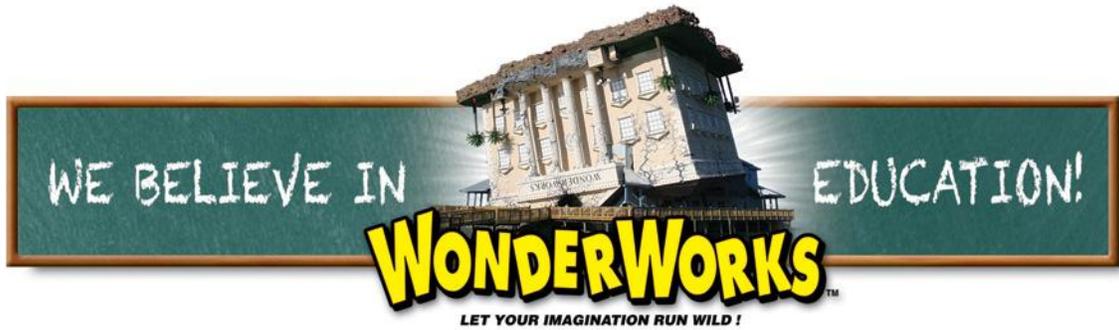
- WonderWorks Applicable Exhibits: Bubble Lab

**Competency Goal 4: The learner will conduct investigations and use appropriate technology to build an understanding of the concepts of sound**

4.01 – Demonstrate how sound is produced by vibrating objects and vibrating columns of air

- WonderWorks Applicable Exhibits: Floor Piano, Roaring Sounds

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4.02 – Show how the frequency can be changed by altering the rate of the vibration

- WonderWorks Applicable Exhibits: Floor Piano, Roaring Sounds

4.03 – Show how the frequency can be changed by altering the size and shape of a variety of instruments

- WonderWorks Applicable Exhibits: Floor Piano, Roaring Sounds

4.04 – Show how the human ear detects sound by having a membrane that vibrates when sound reaches it

- WonderWorks Applicable Exhibits: Floor Piano, Roaring Sounds

4.05 – Observe and describe how sounds are made by using a variety of instruments and other “sound makers” including the human vocal cords

- WonderWorks Applicable Exhibits: Floor Piano, Roaring Sounds