

Funded by:  THE FAULHABER FOUNDATION, INC.

## Astronomy

### Planets Video Lab (classroom kit)



Students create a scale model of the solar system, then analyze the processes that formed the planets, study planetary motion, and synthesize a comet. Includes the DVD Planets: New Discoveries. The Planets Videolab® consists of 10 workstations, including one observation station, plus teacher's guide.

**Expendable supplies not included.**

**/!\ WARNING:** CHOKING HAZARD - Children under 8 yrs. can choke or suffocate on uninflated or broken balloons. Adult supervision required. Keep uninflated balloons from children. Discard broken balloons at once.

Florida State Standards:

SC.8.N.1.6, SC.8.E.5.1, SC.8.E.5.2, SC.8.E.5.3, SC.8.E.5.4, SC.8.E.5.5, SC.8.E.5.6, SC.8.E.5.7, SC.8.E.5.8, SC.8.E.5.9, SC.8.E.5.10, SC.912.L.18.1, SC.912.L.18.12, SC.912.P.8.1, SC.912.P.10.16, SC.912.P.10.19, SC.912.P.12.2, SC.912.P.12.3, SC.912.P.12.4, SC.912.P.12.5, SC.912.P.12.7, SC.912.E.5.2, SC.912.E.5.3, SC.912.E.5.5, SC.912.E.5.11, SC.912.N.1.3, SC.912.N.1.6, SC.912.N.2.2, SC.912.N.2.4, SC.912.N.3.1, SC.912.N.4.1, SC.912.N.4.2

## Our Star & Outer Space Video Lab (classroom kit)



This program explores our universe by investigating the use of spectroscopes, an astrolabe, scale models, astrophotography, and other astronomer's tools. Kit includes 2 DVDs, Beyond the Solar System and The Sun, Our Closest Star; a teacher's guide; answer sheets; and evaluations. This Videolab® is designed to complement the Planets Videolab®. **Expendable supplies not included.**

**/!\ WARNING:** CHOKING HAZARD - Children under 8 yrs. can choke or suffocate on uninflated or broken balloons. Adult supervision required. Keep uninflated balloons from children. Discard broken balloons at once.

Florida State Standards:

SC.8.N.1.1, SC.8.N.1.6, SC.8.N.4.2, SC.8.E.5.1, SC.8.E.5.2, SC.8.E.5.3, SC.8.E.5.4, SC.8.E.5.5, SC.8.E.5.6, SC.8.E.5.7, SC.8.E.5.8, SC.8.E.5.11, SC.8.P.8.1, SC.912.P.12.4, SC.912.P.12.7, SC.912.P.12.8, SC.912.P.12.9, SC.912.P.12.10, SC.912.E.5.1, SC.912.E.5.2, SC.912.E.5.3, SC.912.E.5.4, SC.912.E.5.5, SC.912.E.5.7, SC.912.E.5.8, SC.912.E.5.9, SC.912.E.5.10, SC.912.E.5.11, SC.912.E.7.7, SC.912.N.1.1, SC.912.N.1.3, SC.912.N.1.6, SC.912.N.2.1, SC.912.N.2.3, SC.912.N.2.4, SC.912.N.3.1, SC.912.N.4.1, SC.912.N.4.2

# Biology

## Genetic Corn Activity (classroom kit)



Students work out monohybrid, dihybrid and test crosses using Punnett squares then collect data from real ears of corn and compare the expected results to the actual results. The included ears of corn have been specially polyurethaned to prevent “picking” and moth infestation.

*Includes materials for five student groups: 5 specimens each genetic corn: purple:white (3:1), purple:white (1:1), purple:white:smooth:sweet (9:3:3:1), purple:white:smooth:sweet (1:1:1:1), instructions, rubber bands.*

Florida State Standards:

SC.7.L.16.1, SC.7.L.16.2

## Principles of Mendelian Genetics Lab Activity (classroom kit)



Students can observe the results of random genotype combinations with the same mathematical results as in living organisms but without the hassle of growing them. They'll explore how genetic ratios are derived from two basic laws of probability, as well as simulate monohybrid crosses of peas to understand how alleles are passed on, how traits are determined, and how to predict segregation. They can also simulate a dihybrid cross of peas to understand how independent assortment works. The kit contains enough materials for 15 setups, a teacher's guide, and student copymaster.

Florida State Standards:

SC.7.L.16.1, SC.7.L.16.2, SC.912.L.16.1, SC.912.L.16.2

# Earth Science

## Physical Oceanography Video Lab (classroom kit)



These hands-on lab activities provide a multi-learning approach to the topic of physical oceanography. Activities include the topics of bathymetry, ocean floor profiles, tides, sand and sedimentation types, density, turbidity, and surface currents. Kit includes materials for 11 workstations, the DVD *Physical Oceanography*, and complete teacher's guide.

**Consumable materials needed: yarn, modeling clay, toothpicks, red & blue colored pencils, salt, blue food coloring, clear plastic tray or picture frame, terra cotta tempura paint powder, aluminum foil, heavy construction paper.**

Florida State Standards:

SC.7.N.1.1, SC.7.N.1.3, SC.7.N.1.6, SC.7.N.1.7, SC.7.N.2.1, SC.7.N.3.2, SC.7.E.6.2, SC.7.E.6.4, SC.7.E.6.5, SC.7.E.6.6, SC.7.E.6.7, SC.7.P.1.3., SC.7.P.11.1, SC.7.P.11.2, SC.7.P.11.3, SC.7.P.11.4, SC.8.N.1.1, SC.8.N.1.5, SC.8.N.1.6, SC.8.N.4.1, SC.8.N.4.2, SC.8.E.5.9, SC.8.P.8.2, SC.8.P.8.3, SC.8.P.9.1, SC.8.P.9.3, SC.912.L.17.2, SC.912.L.17.13, SC.912.L.17.15, SC.912.L.17.16, SC.912.L.18.12, SC.912.P.8.2, SC.912.P.10.1, SC.912.P.10.4, SC.912.P.10.16, SC.912.P.10.2, SC.912.P.10.21, SC.912.P.12.2, SC.912.P.12.4, SC.912.P.12.6, SC.912.E.5.6, SC.912.E.6.3, SC.912.E.6.5, SC.912.E.6.6, SC.912.E.7.1, SC.912.E.7.2., SC.912.E.7.7, SC.912.E.7.8, SC.912.E.7.9, SC.912.N.1.1, SC.912.N.1.5, SC.912.N.1.6, SC.912.N.2.4, SC.912.N.2.5, SC.912.N.3.2, SC.912.N.4.1, SC.912.N.4.2

## **Tectonic Sandbox (Demo use)**



The Tectonic Sandbox vividly demonstrates convergent, divergent, and transform boundaries in an easy-to-use, self-contained, hands-on model.

Students predict landform creations along tectonic boundaries as the crustal plates push, pull, and slide past each other in minutes instead of millions of years.

**Consumable materials needed: white sand and colored sand.**

Florida State Standards:

SC.7.N.1.6, SC.7.N.3.2, SC.7.E.6.2, SC.7.E.6.5, SC.7.E.6.7, SC.7.P.11.1, SC.7.P.11.4, SC.912.E.6.2, SC.912.E.6.3

# Equipment

## Dino-Lite Digital Microscopes (Classroom kit – set of 6)



An easy to use, 8-LED hand-held digital microscope with USB output interface for use with desktop or laptop computers. Detailed examination of any area you choose with the ability to take digital photographs and video for item comparisons. The LED feature can be turned on or off. Adjustable magnification from 10X - 200X, all in one compact lens!

***(NOT FOR USE WITH LIQUIDS)***

Florida State Standards:

SC.912.L.14.4

# Geology

## Fossil Specimen Collection (Demo use) *(contains 3 collections: Cenozoic, Paleozoic, Mesozoic)*



### Cenozoic Fossils

Contains 15 specimens, some of which represent life-forms of 60 million years ago, but were the forerunners of many modern mammals and other life-forms. These fossils start with the Paleocene and go to the Recent. Specimens are number coded with key.



### Mesozoic Fossils

Fifteen specimens represent the varied life-forms which dominated this geologic era. The era is best known for the dinosaur, but also saw the development of other forms now extinct or greatly changed. Specimens represent 3 major periods: Triassic, Jurassic, and Cretaceous. Specimens are number coded with key.



### Paleozoic Fossils

The 15 specimens in this collection illustrate the animal and plant evidence found in the rock strata. The fossils of this era are among the oldest, starting with the Cambrian and progressing through the Permian. Specimens are number coded with key.

Florida State Standards:

SC.7.E.6.2, SC.7.E.6.3, SC.7.E.6.4, SC.7.L.15.1, SC.7.L.15.2, SC.7.L.15.3, SC.912.L.15.1, SC.912.L.15.2, SC.912.L.15.3, SC.912.L.15.4

## “Green Science”

## Energy House (classroom kit – set of 6)



With this kit, you can learn about alternative energy and sustainable living by conducting 100 different experiments and building energy related models. Learn about energy-efficient construction materials and passive house design. Experiment with heating, cooling, conduction, convection, and insulation. Investigate Earth's climate, the water cycle, and that inexhaustible power plant in the sky: the sun. Test passive solar collection methods with a solar collector. Hook up a photovoltaic solar panel to generate electricity from sunlight. Build wind turbines to extract energy from the wind. Construct a greenhouse and learn about the energy conservation tricks used by plants.

Power House provides a comprehensive overview of the many forms of alternative energy, and makes environmental protection and energy conservation issues tangible with hands-on models. The 64-page, full-color experiment manual provides instructions, scientific explanations, and energy-saving tips. Ages 10 and up. **Some experiments require additional materials.**

### Florida State Standards:

SC.6.N.1.5,SC.6.N.2.2,SC.6.N.2.3,SC.6.N.3.1,SC.6.N.3.3,SC.6.N.3.4,SC.6.E.7.1,SC.6.E.7.2,SC.6.E.7.3,  
SC.6.E.7.4,SC.6.E.7.5,SC.6.E.7.9,SC.6.P.11.1,SC.6.P.13.1,SC.7.N.1.5,SC.7.N.1.6,SC.7.N.1.7,SC.7.E.6.6,  
SC.7.P.11.1,SC.7.P.11.2,SC.7.P.11.3,SC.7.P.11.4,SC.7.L.17.1,SC.8.N.1.1,SC.8.N.1.4,SC.8.N.1.5,SC.8.N.1.6,SC.8.N.3.1,SC.8.N.  
4.1,SC.8.N.4.2,SC.8.P.8.1,SC.8.P.8.4,SC.8.P.8.7,SC.9.P.9.1,SC.8.P.9.2,SC.8.P.9.3,SC.8.L.18.1,SC.8.L.18.2,SC.8.L.18.3,SC.8.L.1  
8.4,SC.912.L.17.10,SC.912.L.17.11,SC.912.L.17.12,SC.912.L.17.13,SC.912.L.17.15,SC.912.L.17.16,SC.912.L.17.17,SC.912.L.  
17.18,SC.912.L.17.19,SC.912.L.17.20,SC.912.L.18.7,SC.912.L.18.12,SC.912.P.8.6,SC.912.P.8.10,SC.912.P.10.1,SC.912.P.10.  
2,SC.912.P.10.3,SC.912.P.10.4,SC.912.P.10.5,SC.912.P.10.13,SC.912.P.10.14,SC.912.P.10.15,SC.912.E.5.4,SC.912.E.6.6,SC.  
912.E.7.1,SC.912.E.7.3,SC.912.E.7.7,SC.912.N.1.1,SC.912.N.1.3,SC.912.N.1.6,SC.912.N.1.7,SC.912.N.2.2,SC.912.N.2.4,SC.9  
12.N.2.5,SC.912.N.3.1,SC.912.N.3.2,SC.912.N.3.3,SC.912.N.3.5,SC.912.N.4.1,SC.912.N.4.2

# Physics

## Constant Velocity Car (classroom kit- set of 5)



This simple but powerful toy provides a visible source of uniform speed. Your students can easily quantify and graph their results, starting them on the road to a conceptual understanding of motion. The Constant Velocity Car comes with a data sheet including background and product information, and suggested activities. (Kit also includes tape measures & stop watches)

Florida State Standards:

SC.912.P.10.15, SC.912.P.10.16, SC.912.P.12.2, SC.912.P.12.3, SC.912.P.12.6, SC.912.P.12.9, SC.912.N.1.1

## Gyroscopic Wheel & Turntable (Demo use)



Amaze your students with an object that appears to defy gravity! Twist the handles of the spinning handheld bicycle wheel and feel the peculiar body sensation associated with gyroscopic motion. The resulting resistance illustrates the use of gyroscopes as stabilizers and navigational devices. Stand on a rotational turntable and dramatically demonstrate the conservation of angular momentum-you are bound to have your students' undivided attention. For a real crowd-pleasing demonstration, tie a rope to an eye screw in one of the handles of the spinning wheel and it will “violate” gravity as it refuses to topple over-but it will precess. Comes completely assembled with spoked bicycle wheel, handles with hand grips and eye screws. Advanced background information and activity instructions are included. Use with turntable for experiments involving the conservation of angular momentum and rotational kinetic energy.

The turntable can be set on a level floor for standing or placed on a stool for sitting. This platform can support up to 200 pounds, and has non-skid patches to prevent skidding or slipping.

Demo kit also includes one mini gyroscope for demonstration as well.

Florida State Standards:

SC.6.N.3.2,SC.6.N.3.3,SC.6.P.11.1,SC.6.P.13.3,SC.8.N.3.1,SC.912.P.12.1,SC.912.P.12.6

## Kinetic Energy Ball Drop Demonstration (Demo use)



Will a ball traveling twice as fast as another ball of the same mass really have four times the kinetic energy? Demonstrate the relationship between speed and kinetic energy by dropping a ball from two different heights onto a bed of soft clay. For the second drop, the ball is traveling twice as fast, and it forms a crater four times as deep, indicating that it has four times the energy-the energy is proportional to the square of the ball's speed. The clay bed is prepared by pressing clay into a mold of two semicircles. After the demonstration, the clay can be removed from the mold and then cut in half along the crater marks to measure and compare the depth of the craters. All the materials are completely reusable. Detailed instructions, historical background information, and student worksheet are provided.

**Note: the clay must be heated prior to use in order to soften it. A laboratory microwave offers the quickest method, but a ceramic hot plate will work as well.**

Florida State Standards:

SC.6.P.11.1,SC.6.P.13.2,SC.7.N.1.3,SC.7.N.1.6,SC.7.N.1.7,SC.7.N.2.1,SC.7.P.11.2,SC.8.N.1.6,SC.8.P.8.2,  
SC.8.P.8.2,SC.912.P.10.1,SC.912.P.10.2,SC.912.P.12.1,SC.912.P.12.2,SC.912.P.12.3,SC.912.P.12.4,  
SC.912.P.12.5,SC.912.N.1.3,SC.912.N.2.4,SC.912.N.2.5,SC.912.N.3.4

## Waves & Sound Kit (classroom kit)



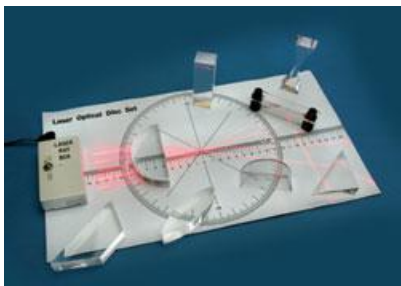
This comprehensive kit consists of five hands-on experiments to explore the properties of waves and sound. Using springs, students study longitudinal and transverse waves, and learn important concepts such as frequency, amplitude and period. Observing the motion of three waves traveling at the same speed allows students to see how wavelength and frequency are related. Wave interference, another important topic, is investigated using simulated point-source circles of different “wavelengths.” Constructive and destructive interference patterns are clearly seen. Next, students experiment with a telescoping resonance tube and tuning forks to determine the speed of sound in air. Students continue their study of resonance as they experiment with a variety of solid rods and tubes to examine the variables that affect the frequency at which they resonate. By rotating the “singing rod” students will clearly recognize the meaning of the Doppler effect. This complete “activity stations” lab kit is suitable for introductory or advanced-level class. Easy-to-set-up lab stations allow different student groups to investigate a specific aspect of waves and sound. Once one activity is completed, students move on to the next lab station. Detailed instructions, Teacher Notes and all the necessary materials are provided. *Enough materials for a class of thirty students working in groups of three.*

Florida State Standards:

SC.912.P.10.1, SC.912.P.10.2, SC.912.P.10.14, SC.P.10.16, SC.912.P.10.17, SC.912.P.10.18, SC.912.P.10.21, SC.912.P.10.21

# Light & Optics

## Laser Prism Set (Demo use)



Study refraction and reflection using the laser ray box and 7 prisms in this economical set. Laser light is bright enough to see even in a well-lighted room, so there is no need to darken your classroom while students work. The ray box plugs directly into an AC outlet. Use the graduated circle printed on the set's mat to measure angles of reflection and refraction. Mat is magnetic, perfect for working on metal desks, tables, or boards. Set features double-convex, double-concave, trapezoid, rectangular, semicircular, and right-angle prisms. Also included are a mirror and a hollow semicircular prism to measure the optical properties of liquids. Includes a sheet of 14 light ray diagrams for reference.

Florida State Standards:

SC.912.P.12.P.10.1, SC.912.P.10.3, SC.912.P.10.4, SC.912.P.10.5, SC.912.P.10.8, SC.P.10.10, SC.P.10.13, SC.P.10.16, SC.912.P.10.17, SC.912.P.10.18, SC.912.P.10.19, SC.P.10.20, SC.912.P.10.21, SC.912.P.10.22, SC.912.P.N.2.4, SC.912.P.N.2.5, SC.912.N.4.1

## Laser Refraction Tank (Demo use)



This clear tank has a circular scale graduated in 5° increments, making it easy for students to measure angles of reflection and refraction. Students can adjust the pivot-arm mounted laser to any angle along its full 360° range and measure the angle of reflection or refraction. They can also rotate the laser and observe first a reflected ray, then both a reflected and refracted ray, and finally just a refracted ray. Leveling screws on the tank's base make leveling quick and easy. The laser is attached to the pivot-arm by a magnet and can be removed for use in other experiments. No external power source is required.

Florida State Standards: SC.912.P.10.14, SC.912.P.10.16, SC.P.10.20, SC.912.P.10.21, SC.912.N.3.3

## Light Box & Optical Set (classroom kit - set of 6)



The original "Hodson" Light Box and Optical Set includes all the equipment needed to perform 30 experiments on reflection, refraction, and color. The durable light box has an adjustable lens that can project a parallel, convergent, or divergent beam. The front face accommodates slit plates or color filters and the rear hinged mirrors allow mixing of all 3 beams. Lenses and mirrors are equipped with handles to prevent smears and scratches and all supplies fit securely in a thick foam box for safe storage. Comes with a 12-V, 3-amp DC power supply.

Florida State Standards:

SC.7.P.10.1,SC.7.P.10.2,SC.7.P.10.3,SC.912.P.10.17,SC.912.P.10.18,SC.912.P.10.20, SC.912.P.10.22

# Weather

## Storms Video Lab (classroom kit)



Features 10 to 12 hands-on activities that can help students understand the concepts behind the basic weather conditions that produce our most common storms. Two DVDs, Thunderstorms: Nature's Fury and Hurricanes: Earth's Greatest Storms, are included in this comprehensive Videolab®. Also includes an extensive teacher's guide, instructions for 12 complete workstations, student answer sheets, teaching tips, learning outcomes, pretests and post tests, and an inventory of the National Science Education Standards accomplished. **Expendable supplies not included.**

**WARNING:** CHOKING HAZARD - Children under 8 yrs. can choke or suffocate on uninflated or broken balloons. Adult supervision required. Keep uninflated balloons from children. Discard broken balloons at once.

### Florida Standards:

SC.6.N.1.1, SC.6.N.1.3, SC.6.N.1.4, SC.6.N.1.5, SC.6.N.2.3, SC.6.E.6.1, SC.6.E.6.2, SC.6.E.7.1, SC.6.E.7.2, SC.6.E.7.3, SC.6.E.7.4, SC.6.E.7.5, SC.6.E.7.6, SC.6.E.7.7, SC.6.E.7.8, SC.6.E.7.9, SC.6.P.11.1, SC.6.P.12.1, SC.6.P.13.1, SC.6.P.13.2, SC.6.P.13.3, SC.7.N.1.1, SC.7.N.1.2, SC.7.N.1.4, SC.7.N.1.5, SC.7.N.1.6, SC.7.N.1.7, SC.7.E.6.6, SC.7.E.6.7, SC.7.P.10.1, SC.7.P.10.2, SC.7.P.10.3, SC.7.P.11.1, SC.7.P.11.2, SC.7.P.11.4, SC.8.N.1.1, SC.8.N.1.6, SC.8.N.3.1, SC.8.N.4.1, SC.8.N.4.2, SC.8.E.5.3, SC.8.E.5.9, SC.8.E.5.10, SC.8.P.8.1, SC.8.P.8.2, SC.8.P.8.3, SC.8.P.8.4, SC.8.P.9.1, SC.8.P.9.2, SC.912.L.18.12, SC.912.P.10.1, SC.912.P.10.3, SC.912.P.10.4, SC.912.P.10.5, SC.912.P.10.13, SC.912.P.10.14, SC.912.P.10.16, SC.912.P.12.2, SC.912.P.12.4, SC.912.E.5.4, SC.912.E.5.6, SC.912.E.7.2, SC.912.E.7.3, SC.912.E.7.4, SC.912.E.7.5, SC.912.E.7.6, SC.912.E.7.7, SC.912.E.7.8, SC.912.E.7.9, SC.912.N.1.1, SC.912.N.1.4, SC.912.N.1.6, SC.912.N.2.4, SC.912.N.4.1, SC.912.N.4.2

## Weather Forecasting Video Lab (classroom kit)



These hands-on activities help your students understand basic weather concepts about processes in our atmosphere. Students learn how to use weather instruments to gather data for their own classroom weather station. Kit consists of a week's worth of activities, including 2 DVDs: *Weather at 5:00* and *The Hydrologic Cycle*, materials for 12 workstations, and a complete teacher's guide. **Expendable supplies not included.**

**/!\ WARNING: CHOKING HAZARD** - Children under 8 yrs. can choke or suffocate on uninflated or broken balloons. Adult supervision required. Keep uninflated balloons from children. Discard broken balloons at once.

### Florida Standards:

SC.6.N.1.1,SC.6.N.1.3,SC.6.N.1.4,SC.6.N.1.5,SC.6.N.2.3,SC.6.E.6.1,SC.6.E.6.2,SC.6.E.7.1,SC.6.E.7.2,SC.6.E.7.3,SC.6.E.7.4,SC.6.E.7.5,SC.6.E.7.6,SC.6.E.7.7,SC.6.E.7.8,SC.6.E.7.9,SC.6.P.11.1,SC.6.P.12.1,SC.6.P.13.1,SC.6.P.13.2,SC.6.P.13.3,SC.7.N.1.1,SC.7.N.1.2,SC.7.N.1.4,SC.7.N.1.5,SC.7.N.1.6,SC.7.N.1.7,SC.7.E.6.6,SC.7.E.6.7,SC.7.P.10.1,SC.7.P.10.2,SC.7.P.10.3,SC.7.P.11.1,SC.7.P.11.2,SC.7.P.11.4,SC.8.N.1.1,SC.8.N.1.6,SC.8.N.3.1,SC.8.N.4.1,SC.8.N.4.2,SC.8.E.5.3,SC.8.E.5.9,SC.8.E.5.10,SC.8.P.8.1,SC.8.P.8.2,SC.8.P.8.3,SC.8.P.8.4,SC.8.P.9.1,SC.8.P.9.2,SC.912.L.18.12,SC.912.P.10.1,SC.912.P.10.3,SC.912.P.10.4,SC.912.P.10.5,SC.912.P.10.13,SC.912.P.10.14,SC.912.P.10.16,SC.912.P.12.2,SC.912.P.12.4,SC.912.E.5.4,SC.912.E.5.6,SC.912.E.7.2,SC.912.E.7.3,SC.912.E.7.4,SC.912.E.7.5,SC.912.E.7.6,SC.912.E.7.7,SC.912.E.7.8,SC.912.E.7.9,SC.912.N.1.1,SC.912.N.1.4,SC.912.N.1.6,SC.912.N.2.4, SC.912.N.4.1, SC.912,N.4.2

## Weather Pro Wireless Weather Center (1 weather center)



A comprehensive weather station with instant transmission, this wireless center collects rainfall, wind direction, wind chill, wind speed, indoor/outdoor temperature, relative humidity, and barometric pressure. This information can then be stored in 3 hour intervals for later retrieval, data comparison, or analysis. The LCD display also shows time, date with calendar comparison, forecast icon, and a 12 hour history graph for barometric pressure.

Wind speed range: 0–111.8 mph.

Outdoor temperature/dew point/ windchill range: -40°F to +139°F/ -40°C to +59.4°C.

Relative humidity: 0%–99%.

Relative pressure: 27.17–31.9 Hg.

Size of receiver: 6 1/2"W x 5 1/2"H x 1 1/4"D.

Florida State Standards:

SC.6.E.7.1,SC.6.E.7.2,SC.6.E.7.3,SC.6.E.7.4,SC.6.E.7.5,SC.6.E.7.6,SC.6.E.7.7,SC.6.E.7.8,SC.6.P.12.1,SC.6.P.13.1,SC.6.P.13.3,SC.7.N.1.1,SC.7.N.1.4,SC.7.N.1.6,SC.7.P.11.1,SC.7.P.11.2,SC.7.P.11.3,SC.7.P.11.4,SC.8.N.1.6,SC.8.E.5.7,SC.8.E.5.10,SC.8.P.9.1,SC.8.P.9.3,SC.912.L.17.13,SC.912.P.10.1,SC.912.P.10.4,SC.912.E.5.4,SC.912.E.5.6,SC.912.E.7.3,SC.912.E.7.4,SC.912.E.7.5,SC.912.E.7.6