



Science Center Supplemental Materials

The materials listed below are available to loan to classrooms throughout the region. There is no additional cost for districts who are a part of the Science Curriculum Materials COSER.

All materials come with training opportunities for teachers.



AIR QUALITY EGG®

Air Quality Eggs

What are they?

- The Air Quality Egg is a system that measures the levels of several variables that impact air quality. They can be used both indoors and outdoors, and students can investigate changes in air quality in a given area over time.
 - Our eggs measure the following variables:
 - Temperature (Celsius or Fahrenheit)
 - Humidity (%)
 - Air Pressure (kPa)
 - CO₂ (ppm)
 - Particulate Matter (coarse, fine, very fine, measured in µg/m³)
 - Ozone (ppb)
 - SO₂ (ppb)

Who?

- Secondary Science and Math Classrooms (grades 6-12) , Statistics Classrooms

Included Materials:

- Four Air Quality Eggs
- Access to Air Quality Egg Web Portal
- Personalized Graphs for each egg

Number of Classroom Sets Available: Three

Length of loan: One Month

Stream Science Kits

What are they?

- Equipment and materials like water testing kits for students to explore the outdoors! Classes can go directly into bodies of water to run investigations and draw conclusions about the health of freshwater ecosystems in local communities.

Who?

- Secondary science classes (grades 6-12), including Middle School, Life Science: Biology, and ecology/ecosystem electives

Included Materials (contact the Science Center for the full list):

- Waders (12 pair)
- Kick Nets
- Fish Nets
- Secchi Disk
- Water Quality Testing Kit
 - Tests for:
 - pH
 - Phosphates
 - Salinity
 - Dissolved Oxygen
- Macroinvertebrate Identification Cards

- Touch Tank
- Optional: Watershed Model

Number of Classroom Sets Available: Two

Length of loan: One Month



GLOBE Kits

What are they?

- GLOBE (Global Learning and Observations to Benefit the Environment) is an international science and education program that empowers students, teachers, and citizen scientists to investigate and understand the Earth's environment. Participants collect valuable environmental data through hands-on investigations, such as measuring temperature, observing clouds, and assessing soil moisture. This data is then submitted to the GLOBE data system, making it accessible online for analysis and exploration. By combining local observations with data from automated stations, GLOBE creates a comprehensive global dataset that supports scientific inquiry and contributes to a better understanding of our planet's changing environment.

Who?

- Secondary Science and Math Classrooms (grades 6-12)

Included Materials:

- Rain Gauge
- Infrared Thermometer
- Hygrometer Thermometer
- Soil Thermometer
- Digital Waterproof Thermometer

Number of Classroom Sets Available: Six

Length of Loan: One Month



Statapults

What are they?

- The Statapult® is a wooden “catapult” device that is used to launch a small ball. There are many things that can be adjusted on the Statapult® (pull back angle, cup position, rubber band attachment, front pin location, stop angle, ball type) which all have some effect on the launch distance.

Who?

- Physical Science Classrooms (grades 6-12), Middle School Science and Math Classrooms, Statistics Classrooms

Included Materials:

- Five Statapults
- 200 Balls

Number of Classroom Sets Available: Two

Length of loan: One Month



TI Innovator Rovers

What are they?

- Students program Rovers to put math and science in motion, adding a physical dimension to verbal, symbolic and graphic representations. Rover also provides an accessible on-ramp to more advanced coding, STEM and robotics projects. The rover can be used with both TI-NSpire CX and TI-84 Plus CE calculators.

Who?

- Math and Science Classrooms, grades 4-12

Included Materials:

- Ten Rovers
- Innovator Hub
- Modules:
 - Light Sensor
 - Moisture Sensor
 - Temperature/Humidity Sensors
 - Ultrasonic Ranger
 - Water Pump
 - Vibration Motor
 - Voltage Sensor

Number of Classroom Sets Available: Three

Length of loan: One Month