



*Presented by:
Science Museum Oklahoma
Oklahoma Museum Network*

**CONFERENCE
ACTIVITIES
SUPPLY LISTS**

Amounts shown are per student.

Please note: Items highlighted in gray are not included in classroom kits—those items must be obtained by the participant(s).

BREAKOUT SESSION – DUST BOWL 2.0?

Soil Layer Jar:

- clean clear jar with a tight fitting lid
- dish liquid
- soil sample
- water

Soil Ribbon Test:

- soil sample
- water

Two Field Wind Test and Ag Engineering Challenge:

- cardboard pizza box
- cardboard divider the width your pizza box
- 10-12 pipe cleaners/chenille stems
- sand or peat moss
- piece of turf starter or erosion control sheet half the size of your pizza box
- piece of plastic sheeting
- 2 wooden skewers
- dice
- hair dryer or box fan
- tape
- scissors

STUDENT ACTIVITY – DIY BAROMETER

- rigid plastic cup or wide-mouthed glass jar or aluminum can
- 12" balloon
- heavy rubber band
- drinking straw
- glue or glue dots
- scissors

STUDENT ACTIVITY – SUGAR SCRUB BARS

- 2 tablespoons coconut oil
- 4 tablespoons sugar
- 2 tablespoons grated bar soap
- 2 oz. portion cup or soap mold
- stir stick
- grater or knife
- microwave safe bowl
- access to a microwave

STUDENT ACTIVITY – TOO MUCH LIGHT

LED light kit:

- 10 mm LED
- jumbo Craft stick
- coin cell battery
- binder clip
- copper tape
- clear tape
- assortment of craft supplies
- city sport center template (*pdf available on Activity Page*)

CITIZEN SCIENCE PROJECT – GLOBE AT NIGHT

- data collection information and forms available at www.globeatnight.org
- Night Sky app (optional/download from the Apple app store or Google Play store)
- smartphone or computer with internet connection

CITIZEN SCIENCE PROJECT – GLOBAL GEO-REFERENCED FIELD PHOTO LIBRARY

- data collection information and Field Photo app available at <http://eomf.ou.edu/photos/>
- Field Photo app (download from the Apple app store or Google Play store)
- camera or smartphone

CITIZEN SCIENCE PROJECT – I SEE CHANGE

- data collection information and sign-up available at <https://www.iseechange.org/getting-started>
- smartphone or computer with internet connection

TEACHER'S LOUNGE – LEVEES THAT LAST

- three different types of soil samples: sand, potting soil, and clay
- water
- ½ measuring cup
- funnel or snowcone cup
- filter paper or coffee filters
- tablespoon
- small sponges
- paper
- pencil

TEACHER'S LOUNGE – WATER FILTRATION

Polluted water sample supplies:

- an empty water bottle with lid to mix and store polluted water
- soil or potting mix
- small pieces of Styrofoam or small pieces of newspaper
- rice or beans
- baking soda or salt
- dishwashing detergent
- vegetable oil
- food coloring
- tap water

For the filter:

- 2-liter bottle
- paper towels, coffee filters or cloth scraps
- sand
- small pebbles
- timothy hay or grass
- horticultural or aquarium charcoal

TEACHER'S LOUNGE – CUP STACK CODING

- symbol key*
- cup stacking cards*
- 6-10 disposable cups
- blank paper
- pencil or pen

* *Templates available for download in Teachers' Lounge*

TEACHER'S LOUNGE – CAMERA OBSCURA

- cardboard box
- empty can
- hammer
- nail
- piece of tracing paper
- tape
- scissors

TEACHER'S LOUNGE – ZOETROPE

- black cardstock
- viewer template*
- 5 ½ " cardboard circle*
- animation template*
- sharpened pencil
- glue
- tape
- copy paper
- additional pencils or markers for drawing

* *Templates available for download in Teachers' Lounge*

RECRUITMENT FAIR VENDOR ACTIVITY

NASA Oklahoma Space Grant Consortium/ NASA EPSCoR - End Effector

- 2 Styrofoam cups
- string (3 pieces)
- scissors
- tape

RECRUITMENT FAIR VENDOR ACTIVITY

Oklahoma City Community College – Simple Catapult

- 8 small craft sticks
- 2 large craft stick
- bottle cap
- 3 rubber bands
- Marshmallows

RECRUITMENT FAIR VENDOR ACTIVITY

Oklahoma State University – Building Structure

- 1+ piece of copy paper
- 1 ft. scotch tape
- 2 ft. piece of string
- scissors

RECRUITMENT FAIR VENDOR ACTIVITY

Northern Oklahoma College – Science Laboratory

- access to Apple App store or Google Play store
- smartphone/tablet
- blister pack or transparency sheet or hard clear plastic

RECRUITMENT FAIR VENDOR ACTIVITY

Cameron University Engineering – Chromatography Butterfly

- coffee filter
- paper plate
- colored markers
- isopropyl alcohol

RECRUITMENT FAIR VENDOR ACTIVITY

University of Science and Arts of Oklahoma – Pipe Cleaner DNA Strands

- 3 pipe cleaners (2 each of 2 colors)
- handful of pony beads

RECRUITMENT FAIR VENDOR ACTIVITY

East Central University Biology – Banana DNA Extraction

- beaker or cups
- tablespoon
- graduated cylinder
- microcentrifuge tube
- water
- salt (sodium chloride))
- dish soap
- ice cold 70% isopropanol
- sample (fruit such as strawberries/bananas or cheek cells)

RECRUITMENT FAIR VENDOR ACTIVITY

Southwestern Oklahoma State University - Department of Biological Sciences and SAGE STEAM Camp – Yeast Exploration

- 3 bottles
- packet of sugar
- packet of yeast
- balloon