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| **Stem** Challenge | Unit |
| Water Cycle Design Challenge | * White construction paper 12 X18 for folding triorama
* Construction paper assorted colors
* Glue
* Paper fasteners
* Other scrap materials of your choice that you may have

**s NestArtifact sifterChallengers** |
| Blowing in the Wind | Not all items will be needed students have a choice to choose, use what you can find around the house.* Construction paper assorted colors
* Fabric strips
* Trash bags
* Dry cleaner bags
* Tissue paper
* Crepe paper
* String
* Yarn
* Paper clips
* Pipe cleaners
* Wire bag ties
* Thread
* Glue
* Washers
* 12 inches’ tape
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| Make a Comet | * Chopsticks or a popsicle stick
* Metallic ribbon (different colors)
* Scissors
* Tin foil

Optional Activity Items* Dry Ice
* Garbage Bags
* Hammer
* Gloves
* Ice-cream sticks
* Sand or Dirt
* Ammonia
* Corn syrup
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| **Rainbow in a Jar** | * 1 jar
* 1/2 cup blue dishwashing liquid
* 1/2 cup olive oil
* 1/2 cup rubbing alcohol
* 1/2 cup light corn syrup
* Food coloring
* Spoon
* Bowl for mixing
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| Controlling Sound | * One pair of working headphones (the kind that covers the entire ear, if possible)
* Bells, small buzzer, CD player, or other noise-making items
* Various materials such as cloth, sponges, foam, cotton balls, cotton batting, small carpet samples, and any other materials that will absorb sound
* Something to hold the earpieces together, such as old headphones without the earpieces or a piece of material that will bend without breaking (vinyl strips from a mini-blind or inexpensive plastic headbands)
* Dixie cups (work well as earpieces and can be stuffed with sound-absorbing materials)
* Rubber bands
* Duct Tape
* Masking tape
* Scissors
* 2 copies of [Headphone Planning Sheet](https://www.teachengineering.org/collection/cub_/activities/cub_soundandlight/cub_soundandlight_lesson5_activity1_headphone_planning_sheet.pdf)
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| Balloon Powered Car | * latex balloons

Car body: * plastic bottle
* plastic cup
* cardboard

Wheels: * CDs
* bottle caps
* empty rolls of tape

Axles: * wooden pencils
* skewers

Other materials:* plastic straws
* paper clips
* rubber bands
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| Got Energy?Spinning a Food Web | * 1 piece of cardboard or construction paper
* 1 or 2 nature or wildlife magazines (such as National Geographic, Natural History, Ranger Rick, etc.)
* Scissors
* Glue
* Several balls of string or yarn (can be re-used for future projects)
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| Classroom Camouflage | * Copies of Animals from Challenge
* [Click here for Animals download](https://fultonk12-my.sharepoint.com/%3Aw%3A/g/personal/fergusons_fultonschools_org/EV0PZdErP8dKmj93JVcLcLMBXNitTt2CSAWuuGWhKhc4tA?e=Sx32cz)
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