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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 |
| 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 |
| **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 |
| 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) |
| 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 |
| 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) |
| Classroom  Camouflage | * Copies of Animals from Challenge * [Click here for Animals download](https://fultonk12-my.sharepoint.com/:w:/g/personal/fergusons_fultonschools_org/EV0PZdErP8dKmj93JVcLcLMBXNitTt2CSAWuuGWhKhc4tA?e=Sx32cz) |