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| Month | **Stem** Challenge | Unit |
| August | Pop Rockets  Playdough to plato.com | * Mini M&M tubes (empty with the labels removed and the tab that holds the top on completely cut off.) * Antacid tablets * Cardboard – cereal boxes work great Used to make the mini cones for the tope of the rockets. (can be made ahead) * Heavy duty aluminum foil * Decorations (asst. stickers) * Washi tape – decorative colors * Painters tape * Clay – small ball each –to put under the lid the hold the tablet in place.   Water bottle (each student will need to measure 1 teaspoon of water)  s NestArtifact sifterChallengers |
| September | Lunar Landers | * 1 piece of stiff paper or cardboard (approximately) 4x5in./10x13 cm. * 3 index cards (3x5) * 1 small paper or plastic 3 oz. cup * 10 miniature marshmallows * 2 large marshmallows * 8 plastic straws * 3 rubber bands * Tape |
| October | **Seasons Free** Standing Tree  4 groups | * 12x12 piece of brown bulletin board paper (some students may be able to measure this themselves) or brown lunch bags. * felt (pink, white, light blue) * construction paper (use scraps from scrap box when possible) * 10 centimeters of tape * yarn (brown and green) |
| November | **Keep a Cube**  **Zoom** | * 20 ice cubes * 10+ cardboard boxes * wax paper * masking tape * newspaper * aluminum foil * rubber bands * paper plates |
| January | Marble Challenge | * Newspaper * Toilet paper * Construction paper 1 new * Paper in the scrap box |
| February | Operation Top Secret Message | * **10 pieces of paper** * **10 paper clips** * **10 rubber bands** * **20 feet of string** * **3 feet of masking tape** |
| March | Life Cycle Tissue Paper Collage | * **Transparency paper – left over overhead paper** * **Tissue paper (assorted colors)** |
| April | Growing Plants | * 1 new piece of construction paper (each group should have a different color) * 1 craft stick * 20 cm. of yarn * 20 cm. of tape * 2 brads * 1 index card * 2 rubber bands * 1 pipe cleaner * 1 toilet paper roll |