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| **Stem** Challenge | Unit |
| Pop Rockets | * Mini M&M tubes (empty with the labels removed and the tab that holds the top on completely cut off) * Antacid tablet * Cardboard – cereal boxes work great Used to make the mini cones for the top of the rocket (can be made ahead) * Heavy duty aluminum foil * Decorations (asst. stickers) optional * Tape – decorative colors (optional) * Painters tape * Clay – small ball –to put under the lid the hold the tablet in place * 1 teaspoon of water)   s NestArtifact sifterChallengers |
| 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 |
| Free Standing Tree | * 1 brown lunch bag * felt (pink, white, light blue) * asst. construction paper * 10 centimeters of tape * yarn (brown and green) |
| **Keep a Cube** | * ice cubes * cardboard boxes * wax paper * masking tape * newspaper * aluminum foil * rubber bands * paper plates |
| Marble Challenge | * Newspaper * Toilet paper * Construction paper 1 new * Paper in the scrap box |
| Operation Top Secret Message | * paper * paper clips * rubber bands * string * masking tape |
| Tissue Paper Collage | * Transparent paper * Tissue paper (assorted colors) |
| Growing Plants | * construction paper * 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 |