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| Month | **Stem** Challenge | Unit |
| August | **Tin Foil People**  Glue on paper to make shadows/flat legs | * 80 heavy duty tin foil 6x6 squares * 20 pieces of different colored tag board 6X6.   s NestArtifact sifterChallengers |
| September | Musical Instrument Build  out of recycled Materials | Recycled materials such as:   * toilet paper roles paper towel roles * soda bottles * aluminum cans * soup cans * glass bottles * cardboard, plastic items any others you can find |
| October | Paper Plate Magnet Maze | * Things that are round - paper plates – different sizes – cardboard that could be cut into circles. Give students choices to select from. * Templates/some students may be able to design a maze without a template. * Magnets 2 each * Cardstock |
| November | Changing Seasons  Paper Dolls | * Cardboard * Cardstock * Construction paper 1 new * Paper in the scrap box * Pipe cleaners * Craft sticks * Twist ties * Rubber bands * Ribbon * 2 paper fasteners * Fabric scraps |
| January | Build a Snowman | * newspaper * toilet paper * construction paper 1 new * paper in the scrap box |
| February | Traveling Pets | * Cardboard * Poster board * Boxes * Glue and/or glue sticks * Pom-poms * Toilet paper and toilet paper rolls * Rubber bands * Brads * Tape * Craft sticks * Yarn * Beads * Ribbon * Pipe cleaners * Anything in the scrap box * Construction paper |
| March | Butterflies are Free | * 20 pieces’ blue construction paper * ribbon * Glue and/or glue sticks * Pom-poms * pipe cleaners * anything from the scrap box * brads (only to make something move or to connect parts) * 20 toilet paper roles * googly eyes |
| April | Grass Head  Recyclable Materials | * **Old nylon stockings** or pantyhose. Knee highs and pop socks, work great. You can also use regular old socks, but the grass sometimes has trouble poking through. * **Grass seeds**. I bought a small "lawn repair kit" which has seeds pre-mixed with slow release fertilizer, but you can use whatever seeds you've got handy. I hear that chives, rye or alfalfa seeds also work well. * **Sawdust or potting mix** for stuffing. Or just some soil from your garden. I got a bag of sawdust for free from a big hardware store - they seemed happy to get rid of it! * **Small yoghurt pot**. * **Decorations**. Goggly eyes and fabric scraps for the heads, colored paper for the bodies, pipe-cleaners for spectacles... get creative :-) * **Water-proof glue**. For sticking on the eyes, lips, etc. I used hot glue, but you can use any sort of glue so long as it won't dissolve in water. |