

Week 2
July 19-23

Theme: Aerospace

- Roll Call Monday:
 - Self-Directed Activities:
 - [Paper Helicopter](#) (Grades K-2)
 - Download link above
 - [Straw Airplane](#) (Grades K-2)
 - [Paper Fliers Engineering Challenge](#) (Grades K-2)
 - **Box Fan**
 - **Cone Water Cups** – (Also useful for a variety of crafts and activities!)
 - Scissors
 - Something to prop the fan on (like thick books, blocks, or boxes)
 - [Build a paper airplane launcher](#) (Grades 3-5)
 - Paper
 - Rubber bands
 - Pen or pencil
 - Paper clips
 - Tape or stapler
 - Construction materials to build a paper airplane launcher. You can use whatever materials you have available. Examples include cardboard, building toys such as LEGO® or K'NEX®, or wood.
 - Open area to launch paper airplanes (without wind or strong drafts)
 - [Moon Observation Printable](#) (Grades 3-5)
 - Download printable pages [here](#)
 - [Paper airplanes- Why flaps and folds matter](#) (Grades 3-5)
 - Sheet of paper, standard 8 ½ inch by 11 inch size
 - Ruler
 - Scissors
 - Large open area in which to fly a paper plane, such as a long hallway, school gym, baseball field, or basketball court. If you are flying your paper plane outside, try to do it when there is not any wind.
 - Something to make at least a one foot line with, such as a long string, another ruler, masking tape, rocks, or sticks.
 - [Printable Aircraft Spotter Cards](#) (Grades K-5)
 - Download by clicking link above
 - [Virtual Tour: International Space Station](#) (Grades K-5)
 - Click link above for tour

- Terrific Tuesday:

o Self-Directed Activities:

■ [Toilet Paper Roll Airplane](#) (Grades K-2)

- toilet paper rolls (1 roll for each airplane)
- 2 large craft sticks per airplane
- 2 mini craft sticks per airplane
- tempura paint. (Two different colors of paint for each airplane.)
- *Optional:* Dot paint markers (You can also just use regular tempura paint for both parts of the airplane. paint brushes and something to hold the paint.)
- two paper plates (at least)
- hot glue and hot glue gun
- small piece of craft foam to match the color of each airplane wing
- pencil
- scissors
- exacto knife or razor
- 1 pony bead to match the color of the airplane fuselage (my husband would be so proud. I said fuselage).
- 1 black or gray pipe cleaner
- 2 mini black pompoms per airplane

■ [Catapult Paper Airplane Activity](#) (Grades K-2)

- Paper
- Elastic band
- Pencil

■ [Make and Fly a Bird Kite](#) (Grades K-2)

- Multiple different colored pieces of construction paper
- Scissors
- Stapler
- Hold puncher
- Glue /Glue Stick
- Markers

- Yarn/ string (so kite can fly)
 - [Engineering: Rubber Band Helicopter STEM activity \(Grades 3-5\)](#)
 - [Plastic propellers \(smaller pack\)](#)
 - [Craft sticks](#)
 - [Paperclips](#)
 - [Rubber bands](#)
 - [Card stock](#)
 - [Masking tape](#)
 - [Scissors](#)']
 - [Virtual Cockpit Tours](#) (Grades 3-5)
 - Click link above to access
 - [Airplane Challenge: How much cargo can it hold?](#) (Grades 3-5)
 - [Construction Paper](#)
 - [Tape](#)
 - Handfuls of coins
 - Doorway.
 - [Virtual Tour of the Moon](#) (Grades K-5)
 - Click link above to access

- Wow Wednesday:
 - Self-Directed Activities:
 - [Rotor Motor Paper Airplane Template](#)
 - Print Template above
 - [Paper Windmill](#) (Grades K-2)
 - [Construction Paper](#)
 - [Tape](#), Lots of tape!
 - Handfuls of coins
 - Doorway.
 - Scissors
 - [Straw Rocket Flying Challenge](#) (Grades K-2)
 - Straws
 - Tape or [glue dots](#)
 - [Plastic pipettes](#) (or straws with a larger diameter than the other set of straws)
 - [Markers](#), crayons, or colored pencils
 - Scissors
 - [Free Rocket Template](#)
 - [Plastic Cup Rocket Launcher](#) (Grades K-2)
 - Plastic cup
 - Scissors
 - Tape

- 2 Rubber bands
 - [Engineering: Coffee Cup Helicopter](#) (Grades 3-5)
 - Single use coffee cup
 - Trash, Stuff around the house, recyclables, etc. [Spinning Science: Centripetal Force Activity](#) (Grades 3-5)
 - Transparent plastic cups, at least four
 - Scissors or one-hole puncher
 - Duct tape or electrical tape
 - String
 - Cooking pot
 - Measuring cup
 - Stove
 - Jell-O, two packages, each of a different color
 - Refrigerator
 - Marbles, at least three
 - An open area outside
 - Flashlight
 - [Pool Noodle Rocket Flinger](#) (Grades 3-5)
 - A pool noodle – get the smallest diameter that you can find. We bought ours at Dollar Tree.
 - A serrated kitchen knife – for cutting the pool noodle.
 - Duct tape
 - Rubber bands – small and large
 - Scissors
 - A crochet hook, or Rainbow Loom hook
 - Craft foam
 - Hot glue gun
 - A large nail
 - [Measuring Rainfall Activity](#) (Grades K-5)
 - Container such as a water bottle (to capture falling rain)
 - Ruler or tape measure (to measure the rainfall captured by your container)
 - Pen or marker
 - Scissors
 - Small stones/pebbles (to hold the rain gauge down)
 - Tape
 - A rainy day!
-
- Catch-up Thursday:
 - Finish up any self-directed activities from the week

- Additional Self-Directed Activities:
 - [Floating Ball Activity](#) (Grades K-2)
 - Bandy straw
 - Paper
 - Scissors
 - Pen or Pencil
 - Tape
 - Ping pong ball or ball made of foil
 - [Parachute STEM experiment: Can you make your toys fly?](#) (Grades K-2)
 - A cow figurine, preferably one who isn't afraid of heights.
 - String or ribbon
 - A handkerchief
 - A sheet of paper
 - A plastic bag or plastic tablecloth.
 - Scissors
 - [Hot Air Balloon Bottle Experiment](#) (Grades K-2)
 - Empty 2-liter bottle, cap removed
 - 1 round balloon (preferably larger than 5", see package for size)
 - 1 sheet of paper towel
 - 1 tablespoon baking soda
 - 1 liter white vinegar
 - Food coloring (optional)
 - [STEM: Build a Flying Machine and printable PDF](#) (Grades 3-5)
 - Download this form above
 - [Kite Construction: Can you get it to fly?](#) (Grades 3-5)
 - Different weight and sizes of paper
 - Tissue paper
 - Plastic bags
 - Popsicle sticks
 - String
 - Tape
 - Glue
 - [STEM: Hot Air Balloon Build with Tissue Paper](#) (Grades 3-5)
 - 5-6 sheets of tissue paper
 - A strip of paper
 - Glue stick
 - Marker
 - Scissors
 - Hair dryer.