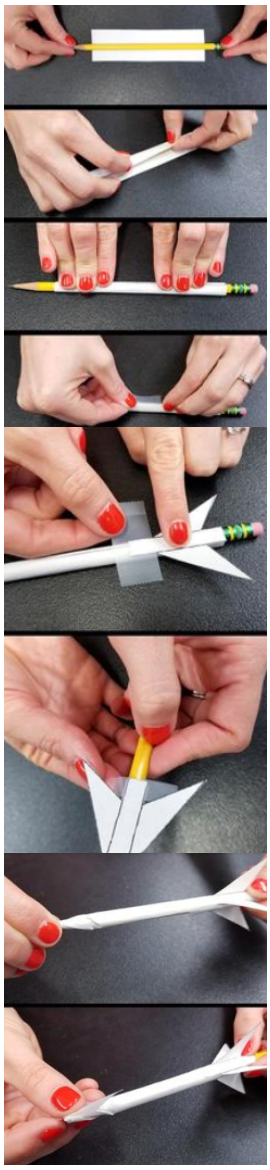
STRAW ROCKETS

Physics

Children will design their own rocket, ready to launch, in this experiment. Scientists design rockets to make space travel achievable for astronauts to travel to the Moon, Mars, and beyond. Design your own rocket - how far will it travel?



Materials:

- Pencil
- Scissors
- Tape
- Soda Straw (Plastic or Reusable)

Directions:

1. Cut out and shape the rocket body. The large rectangle will be the body of the rocket. Wrap the rocket body around a pencil length-wise and tape it closed to form a tube. The body should be loose enough that it slides off the straw, but not so loose that there are large gaps between the straw and paper.
2. Cut out and tape on the fins. Line up the rectangle in the middle of the fin with the bottom of the rocket body and tape it to the rocket body. Nothing should stick out past the bottom of the rocket body.
3. Make a fin sandwich. Tape the other fin to the rocket body the same way as in Step 2. Bend the fins! Looking from the bottom of the rocket, the fins should look like a “+”.
4. Twist and pinch the top of the rocket body around the tip of the pencil to create a “nose cone” for your rocket. Tape the nose cone to prevent air from escaping and to keep it from untwisting.
5. Prepare for launch. Remove the pencil and replace it with the soda straw.
6. Three, two, one… LAUNCH! Mark your launch point with tape or an object. Then, blow into the straw to launch the rocket!

Note: Adult supervision required! Be sure that your launch area is clear of hazards. Do not aim rockets at other people or pets.