Cut out and shape the rocket body
Cut out the rectangle. This will be the body tube of the rocket. Wrap the rectangle around a pencil length-wise and tape the rectangle so that it forms a tube.

Cut out and attach the fins
Cut out the two fin units. Align the bottom of the rectangle that extends between the fins with the end of the rocket body, and tape the fin to the body tube. Do the same thing for the other fin on the opposite side, making a “fin sandwich.”

Bend the fins
Bend the fins on each fin unit 90 degrees so that they are each at a right angle to each other. When you look along the back of the rocket, the fins should form a “+” mark.

Make and measure the nose cone
Twist the top of the body tube into a nose cone around the sharpened end of your pencil. Measure your nose cone from its base to its tip and record the length on the data log and on the rocket itself.

Prepare to launch!
Remove the pencil and replace it with a soda straw. Be sure your launch area is clear of people and hazards. Then, blow into the straw to launch your rocket! Record the distance the rocket travels on your data log.

Space Origami: Make Your Own Starshade

Make a model of this NASA space technology designed to help capture images of planets outside our solar system! Full instructions at: go.nasa.gov/2m1QT6B

Materials
- Starshade Template
- Scissors
- Empty ballpoint pen or stylus (optional)

1. Cut it out: Carefully cut along the exterior (black) lines to remove the Starshade model.
2. Score and crease the darker fold lines: Crease each fold, individually, as follows: Blue lines are mountain folds that point up. Orange lines are valley folds that point down, as viewed from the printed side of the paper. You may use a tool – like a stylus, retracted mechanical pencil, or empty ballpoint pen – to lightly score the fold lines for easier creasing. Be careful not to tear the paper.
3. Score and crease the lighter fold lines (optional): The minor fold lines, printed in lighter colors, do not need to be creased; however, creasing them will produce a more satisfying origami
4. Fold it: After all lines have been creased, carefully fold the major fold lines, moving from the center outwards. The major fold lines will fold 180 degrees. You may hold the central hexagon flat while rotating it, gathering the folds in a spiral wrap.