

# PAPER ROCKETS

## Description:

Each team will build and fly a paper rocket using materials, which will be provided.

Number of Participants: 2

Approximate Time: 45 minutes

## The Competition:

The team will have 20 minutes to build a rocket and practice launching it. This will be followed by the official launching. The winner will be the team closest to the target. The following materials will be provided:

- Large plastic soda straws (the kind used in fast food restaurants). One per student.
- Sharpened pencils (same size as straws). One per student.
- Paper (8.5 x 11). Two sheets per team.
- Cellophane tape. One roll per team.
- Scissors - one per team.
- A ruler - one per team.

1. Cut a strip of paper about 8.5 inches long and 1 to 2 inches wide.
2. Roll the paper strip around the pencil lengthwise to form a tube. Tape the paper so that the tube slides easily off the pencil but is not too loose.
3. Make several pointed cuts at one end of tube. See Figure A.
4. Slide the sharpened end of the pencil toward the pointed cuts. Fold the points around the sharpened end of the pencil and tape to form the nose cone. DO NOT TAPE THE PAPER TO THE PENCIL. See Figure B.

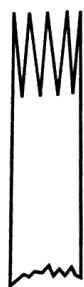


Fig. A

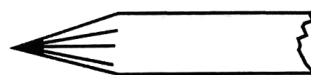


Fig. B

5. Cut out two sets of fins. Use the pattern in Figure C. Fold the fins on the dashed lines in the manner shown in Figure C.
6. Using two pieces of tape, fix the fins to the opposite end of the tube from the nose cone. Insert the pencil for support in taping. See Figure D.