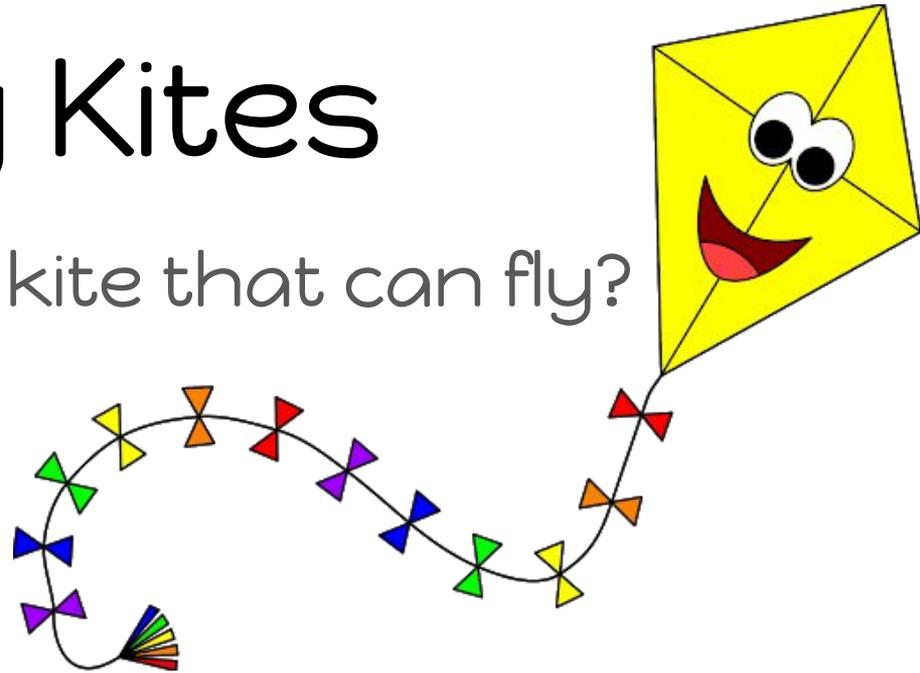


Crazy Kites

Can you create a kite that can fly?





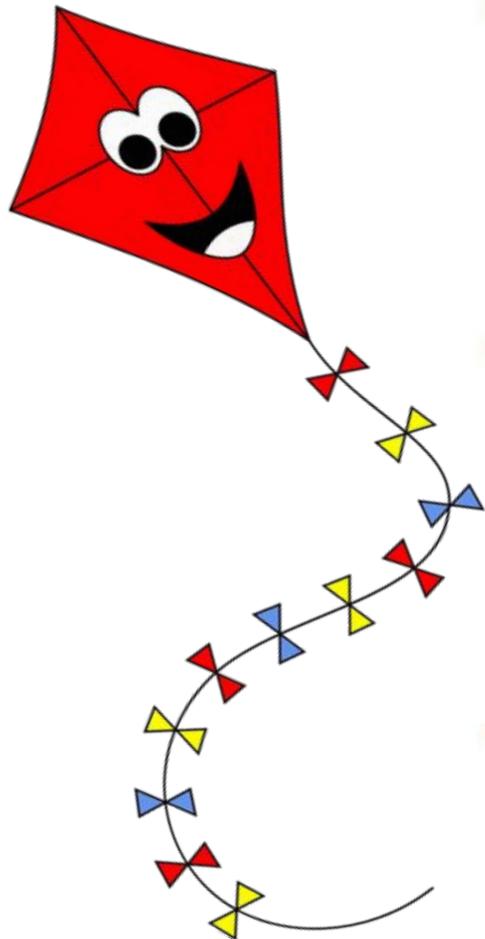
Crazy Kites

In this exciting activity, kids will get to use their engineering design skills to make and build a kite of their own. While testing out the kite designs kids will learn about how lift and air pressure work together to make things fly!

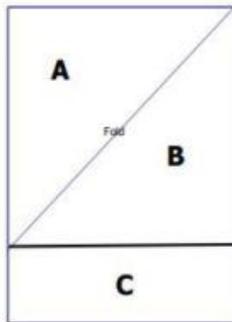
Kites have been constructed and flown for thousands of years. They have been used for fun, for military exercises, and for scientific purposes. You may know that Benjamin Franklin used a kite to show that lightning is electricity. There is also historical evidence that in China kites were used more than 2200 years ago.

What to Do

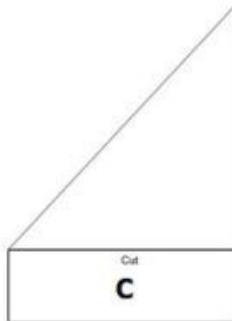
1. To begin, take a standard 8.5" X 11" sheet of paper and fold corner A to the opposite corner B so that the top edge aligns with the top right edge. Make a crease. There will be a 2 1/2" rectangle (C) remaining on the bottom. Cut off rectangle C and place it aside to use later.
2. Fold corner A back towards the center fold so that the bottom edge of corner A aligns with the middle fold. Make a crease. Turn over and repeat on the other side for corner B.
3. Fold corner A back down so that the top edge of corner A aligns with the opening of the fold. Turn over and repeat on the other side for corner B. Gently unfold and stretch the paper out so that A and B are facing up. The kite should look as shown. Fold corner A back towards the center fold so that the bottom edge of corner A aligns with the middle fold. Make a crease. Turn over and repeat on the other side for corner B.
4. Place a 1" piece of tape at the top corner of the kite on both sides along the spine (middle fold). Punch a hole along the spine midway through the tape (about 1/2" from the top corner). Use sewing thread to attach the kite tail to the kite through this hole.
5. Place a 1" piece of tape at the top corner of the kite on both sides along the spine (middle fold). Punch a hole along the spine midway through the tape (about 1/2" from the top corner). Use sewing thread to attach the kite tail to the kite through this hole.
6. Punch holes through corners A and B. Loop thread through these holes and tie them together to make a bridle. Keep the rest of the spool attached and loosen an amount of string to use as the kite's line and handle.
7. **FLY YOUR KITE!** Try making some improvements to your kite to help it fly better. What happens if you adjust the length of the tail or the length of the bridle? What happens if you make the kite larger? and attach the rest of the spool to the bridle. This will complete the kite bridle.



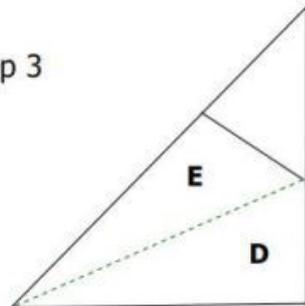
Step 1



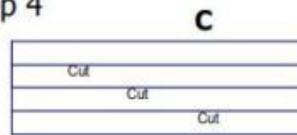
Step 2



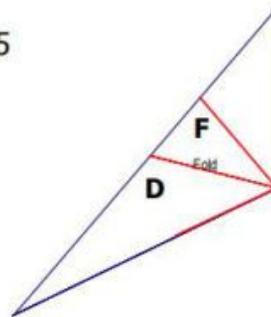
Step 3



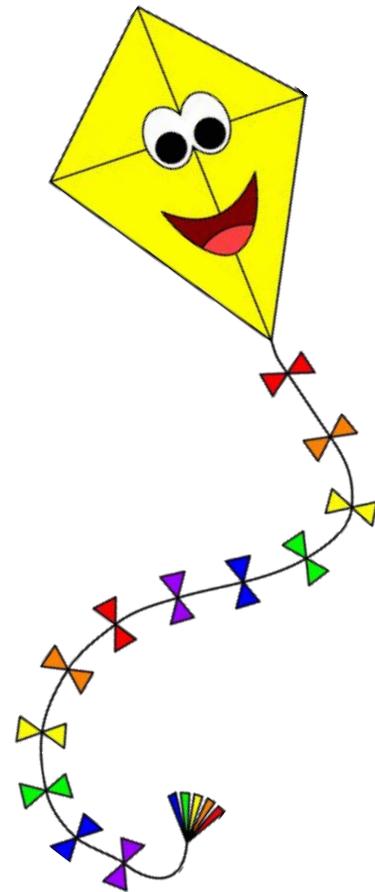
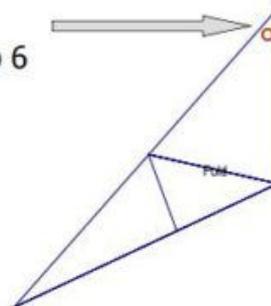
Step 4

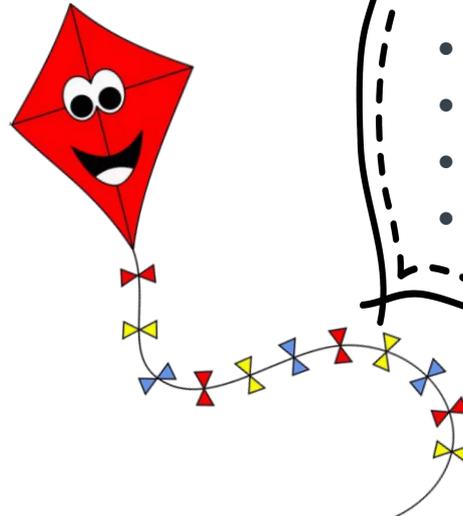


Step 5



Step 6





Some Ideas of Materials You Could Use:

- 8.5" X 11" sheet of paper (1 sheet per child)
- Tissue Paper
- Newspaper
- Tape
- Scissors
- Plastic straws
- Sewing thread or string
- Breezy Day or Fan