



STEM CHALLENGE: KITE MAKING

IT'S SPRING TIME, WHAT A GREAT WAY TO USE THE WINDY DAYS AND CREATE SOME FUN LEARNING THROUGH A KITE STEM PROJECT. THE CHALLENGE IS TO BUILD A KITE THAT WILL FLY!



MATERIALS NEEDED FOR EACH GROUP:

- 1 GARBAGE BAG
- 10 PIECES OF PAPER
- 20 STRAWS
- 4 WOODEN DOWELS
- CREPE PAPER
- TAPE
- YARN
- STRING TO FLY KITE

STUDENT SUPPLIED SUPPLIES EACH GROUP WILL NEED:

- SCISSORS
- RULER
- GLUE
- CRAYONS

STUDENT INSTRUCTIONS:

1. YOU ARE DESIGNING AND BUILDING A KITE.
2. THE KITE MUST BE ABLE TO FLY FOR 30 SECONDS.
3. AS A TEAM, LOOK THROUGH ALL THE MATERIALS PROVIDED AND DESIGN YOUR KITE.
4. YOU MAY USE YOUR OWN GLUE, CRAYONS, RULER AND SCISSORS.
5. YOU ARE ONLY ALLOWED TO USE THE MATERIALS PROVIDED.
6. IF YOUR KITE DOES NOT FLY, GO BACK AND REVISE YOUR KITE UNTIL IT DOESN'T FLY.
7. REMEMBER THIS IS A TEAM EFFORT!



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GROUP RESPONSE WORKSHEET

TEAM MEMBER NAMES:



1. DISCUSS AND LIST THINGS YOU KNOW ABOUT FLYING A KITE.

2. WHAT IS YOUR KITE DESIGN?

3. LIST THE TEAM'S REASONS WHY THIS DESIGN WAS PICKED.

4. DRAW A PICTURE OF YOUR DESIGN.

5. GET YOUR SUPPLIES AND MAKE YOUR KITE.

6. TEST YOUR KITE. DID IT FLY? IF NOT, WHAT CHANGES CAN YOU MAKE?



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INDIVIDUAL RESPONSE WORKSHEET

YOUR NAME:

OTHER TEAM MEMBER NAMES:

1. DID YOU AGREE WITH THE DESIGN THAT YOUR TEAM PICKED? WHY OR WHY NOT?

2. HOW DID YOUR TEAM DECIDE WHAT DESIGN TO USE?

3. WHAT WAS YOUR RESPONSIBILITY ON THE TEAM?

4. WHAT DID YOU LEARN FROM THIS EXPERIMENT?

5. WHAT WAS THE HARDEST PART OF THIS CHALLENGE?