4-H Cabin Fever Friday!

May 8, 2020

4-H is an opportunity to try new activities and learn new skills. If you're looking for an idea to pass the time and want to try something new, check out the projects below. 4-H Cabin Fever Friday will be created weekly with a variety of projects and skill levels highlighted each week. Please remember the social distancing and Safer at Home guidelines while doing these projects. If you would like to take a picture of you or your family doing one of these 4-H projects, feel free to email it to me at holly.luerssen@wisc.edu, with the subject line: 4-H Cabin Fever Friday Photo and each family will be entered into a drawing at a later date for some special gifts!

Straw Rockets

UW–MADISON EXTENSION
Langlade & Lincoln Counties

Did You Know?

The modern rocket design was created in the beginning of the 20th century. Rocket designs are still improving today. Engineers develop new rockets using control variables. By changing one variable at a time they can determine if a change will increase or decrease performance. Designs might fail. Engineers use those trials to improve designs.

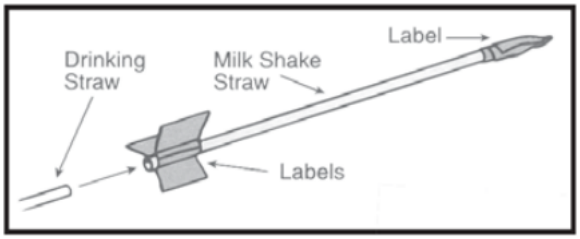
4-H Project Area: Aerospace
Life Skill: Inquiry
Time: 20-30 minutes

Supplies For Designing A Straw Rocket Per Person

- 2 - 1" x 2 1/2" adhesive labels
- 1 Sweetheart (or smaller) drinking straws
- 1 Carnival (or larger) milkshake straws
- Pair of scissors
- Roll of masking tape
- Tape measure
- Paper to create a flight distance log per person

Design A Straw Rocket

1. Gather supplies
2. Cut two labels in half the short way to make four 1" x 1 1/4" labels.
3. Wrap one label around the end of the *larger* (milk shake) straw; seal completely to make a rocket nose cone.
4. Attach both ends of the three remaining labels at the opposite end of the same straw.
5. Stick the adhesive together and crease to make three rocket fins. Add team initials to fins.
6. Test fire the rocket by inserting a *smaller* (drinking straw) inside of the larger straw rocket.
7. Ready to launch? Stand at the launch line (marked by masking tape) Aim the rocket into the air, away from anyone else and launch by blowing hard.
8. Create a flight log to record each person's distance.
9. Emphasize health and safety issues by telling youth to discard their smaller straws after using them and only launch rockets in an orderly fashion at the official launch line one at a time.
10. How did it go? Hoping it would go farther? Try changing the fins or change the nose cone label. Does a shorter or longer straw make a difference in the flight?



Reflect:

- What happened when you made changes to the fins of your rockets?
- How did the changes affect your straw rocket's flight?

https://www.atchison.k-state.edu/docs/4_h/after_school/aerospace/RocketsAway.pdf

See the Wind: Make a Windsock

Supplies:

- 8 1/2 x 11 inch card stock
- Different colors of crepe paper streamers (or tissue paper strips or ribbon)
- Kite string or other craft twine
- Paperclips - 1 per windsock
- Tape, glue, stapler
- Single hole punch
- Fan or access outdoors (to test windsocks)

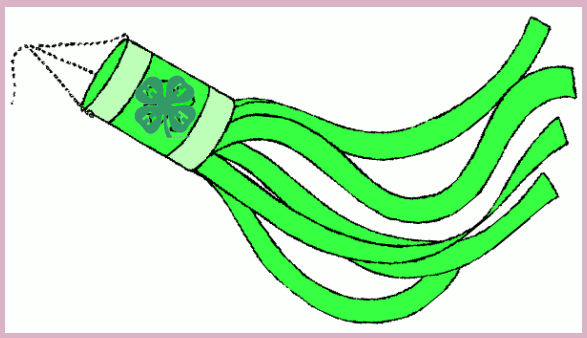
Objective: To understand wind direction and speed.

What to Do:

1. Decorate cardstock. Staple or tape the cardstock to make a ring. Tape or glue streamers along the bottom edge of the ring.
2. Punch three holes equal distance around the paper ring at the top edge of the ring.
3. Cut 3 pieces of string about 12" long. Tie one end of each string to the wind sock at each of the 3 holes.
4. Tie the 3 loose ends of the string to a single paper clip. Tie and additional 12" string to the paper clip.

Reflect:

- How does weather affect your life?
- What does the wind sock do in the wind?
- How can you tell which direction the wind is coming from?



Bee Dough

Create a Bee Model

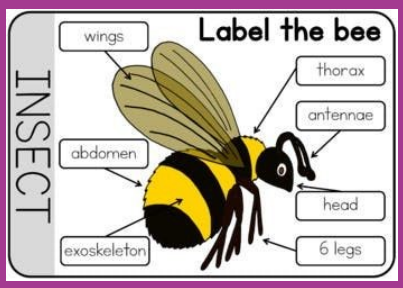
Objective: To correctly identify the three parts of a bee

Time: 30Minutes

Supplies:

- 8 oz package of cream cheese
- 1/2 cup non-fat dry milk
- 1 tablespoon honey
- Slice almonds (or the like for wings)
- ***Alternate:*** Use playdough or modeling clay

Create dough into shapes of a honey bee. A bee should have a head, thorax, abdomen, and two pairs of wings attached to the thorax.



DO:

Wash your hands.

Combine the cream cheese, milk, and honey in a bowl and mix until well blended.

Use a tablespoon of dough to shape into the form of a honey-bee.

REFLECT:

- What are the three parts of the bees?
- What jobs do bees have?
- What else do you know about bees?

APPLY:

- Compare the dough bee model to an illustration of a bee.
- Now it *"bee"* time to eat!

Wisconsin 4-H Afterschool Team:

September 2005