

STEAM

Facts about Bees

Busy Bee Target Kit

Learning Objective:

- Using fine motor skills to successfully launch your bee
- New vocabulary words: projectile (the bee)
trajectory (the path followed by a projectile under the action of a force - the rubberband)
- Simple facts about bees

Supplies per person

- 2 pieces of paper
- pencil and or markers
- a rubber band (a hair rubberband is fine)
- scissors and tape

DID YOU KNOW...

- Honey bees must gather nectar from two million flowers to make one pound of honey.
- One bee has to fly about 90,000 miles – three times around the globe – to make one pound of honey.
- The average bee will make only 1/12th of a teaspoon of honey in its lifetime. A honey bee visits 50 to 100 flowers during a collection trip.
- A honey bee can fly for up to six miles, and as fast as 15 miles per hour.
- The bee's brain is oval in shape and about the size of a sesame seed, yet it has a remarkable capacity to learn and remember things. It can make complex calculations on distance travelled and foraging efficiency.
- Honey bees communicate with one another by dancing.

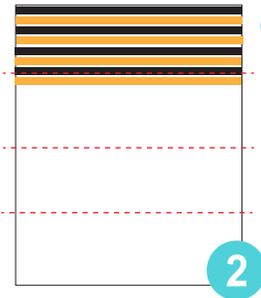
Procedure

Learn how to draw a beehive & bee, and how to make their bee (projectile) fly towards the their beehive target.

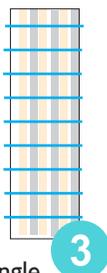
1. Create a beehive- basically it is a bunch of hotdogs stacked on top of each other. Bees are drawn by making a "U" for the body, a circle for the head and raindrops for the wings. Add numbers in circles, so you can earn points when you hit the target. Color and tape to wall with your parents permission.



2. Time to make the flying bees. Cut (on the red dotted lines) your paper in 4 equal parts. Color the paper in a pattern of stripes to resemble a bee (This is a great place to learn patterns for younger kids).



3. Turn one of your strips of paper over to the white side and fold (like on the blue lines) over & over until you have a little rectangle.



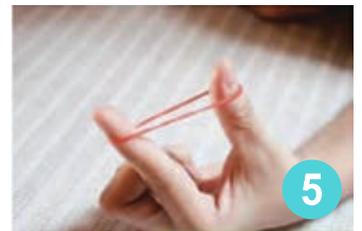
4. Take your small rectangle and fold in half like the photo.

5. Put the rubber band on your finger and thumb.

6. Pull back your projectile (bee) and Let go! The path your bee takes is called the trajectory. Have fun!

Extensions:

- For younger kids: Use three different rubber bands & test. Does one rubber band launch the bee farther than others? Use the scientific process.
- For older kids: Dive into the physics through research on the computer and learn equations.
- For fun: Put obstacles in the way for the bees, such as a chair with rungs or launch over a jungle gym!



CHOOSE THE COLORS THAT MAKE YOU HAPPY!



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