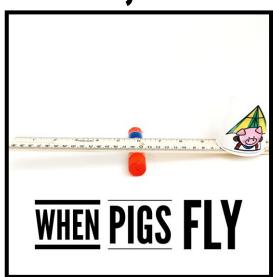


CREATED BY BROOKE BROWN AND KATIE KING

# STEM

4 flight-themed challenge stations with facts, video links, and student recording booklet!

CATAPULT



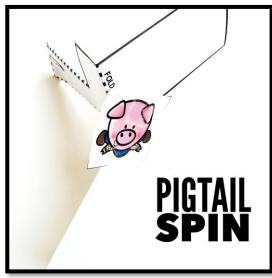


TRAW ROCKE

**JELICOPTER** 

**PARACHUTE** 





# 4 "When Pigs Fly" STEM Stations

Can you use a lever to launch your pig the farthest distance?



### YOU WILL NEED:

- pig mini cup ruler
- glue stick
- vardstick or tape measure

You can use a LEVER to launch objects in the air by placing an object on one side and applying force to the other side. A CATAPULT uses a lever to launch objects.



LEARN MORE 回線回

## Nords to Know

force of flight that pushes an object forward



DRAG





## BARNYARD BLAST-OFF

Can you create a straw rocket to launch your pig toward a target?



### YOU WILL NEED:

- paper pig paper rectangle
- straw
- tape
- target

## DID

THRUST is the force that pushes an object forward. It is created with a propeller, jet engine, or rocket. You also use thrust when throw or blow an object.











DRAG is the force on an object in the air that reduce forward motion and slows it down. Parachutes use drag to help passengers land safely on the ground.









5 pennies

Can you create a paper helicopter to use it to transport your pig to the ground?



### YOU WILL NEED:

- paper pig
- helicopter template

## LEARN MORE

GRAVITY is the force that pulls all objects toward

the center of the Earth.

Without gravity, we would float in space! Airplanes and helicopters need gravity to land.



### "When Pigs Fly" STEM STATIONS Reflection NAME Which station was your FAVORITE? Which station was EASIEST?



## NHEN PIGS FLY My Blueprint How far did your pig go? DISTANCE 0





