



Katherine Johnson Unit Study

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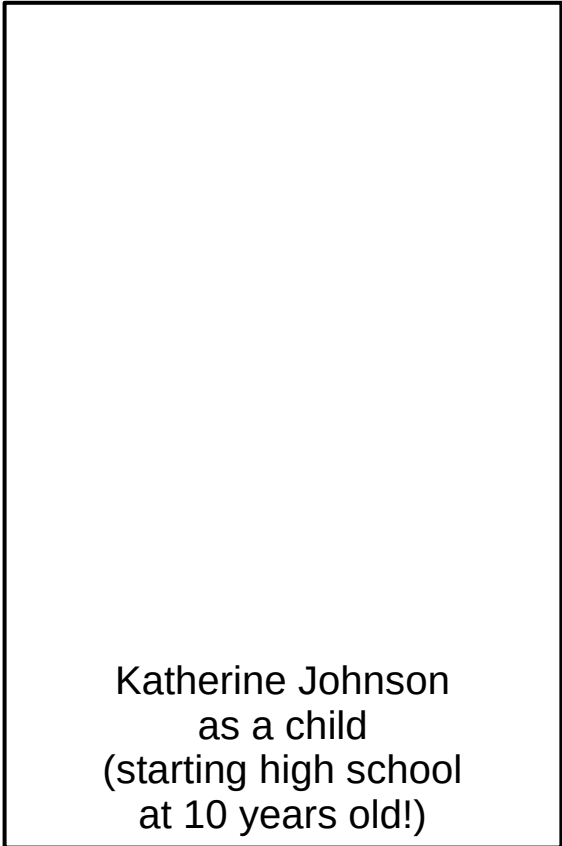
Thanks Erin @Royal Baloo



All About

Katherine

Johnson



Katherine Johnson
as a child
(starting high school
at 10 years old!)

Katherine Johnson

Birthday:

Where she was born:

Her interests:

Draw a path for the spacecraft to take off,
orbit the earth, and land again.

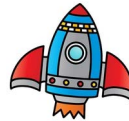
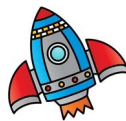
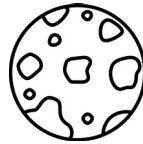


Katherine Johnson was a computer for NACA (and later NASA).
Before we had electric computers, people worked as human
computers that solved math problems. Katherine used math to plan
a path for spacecraft to orbit the Earth and land on the moon.

Two space missions Katherine helped launch

A large empty rectangular box with a black border, intended for writing the names of two space missions.A large empty rectangular box with a black border, intended for writing the names of two space missions.

Trace the path of the spacecraft based on the angle of the spacecraft



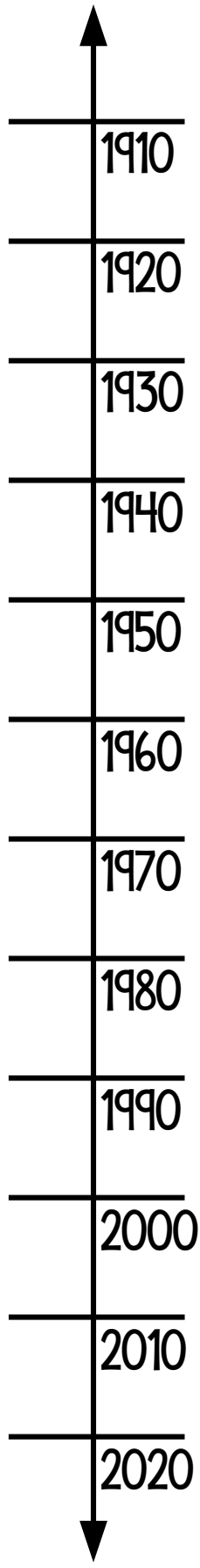
Katherine studied physics and mathematics so she could figure out when space shuttles should take off, where they should take off, and the path the space craft would take.

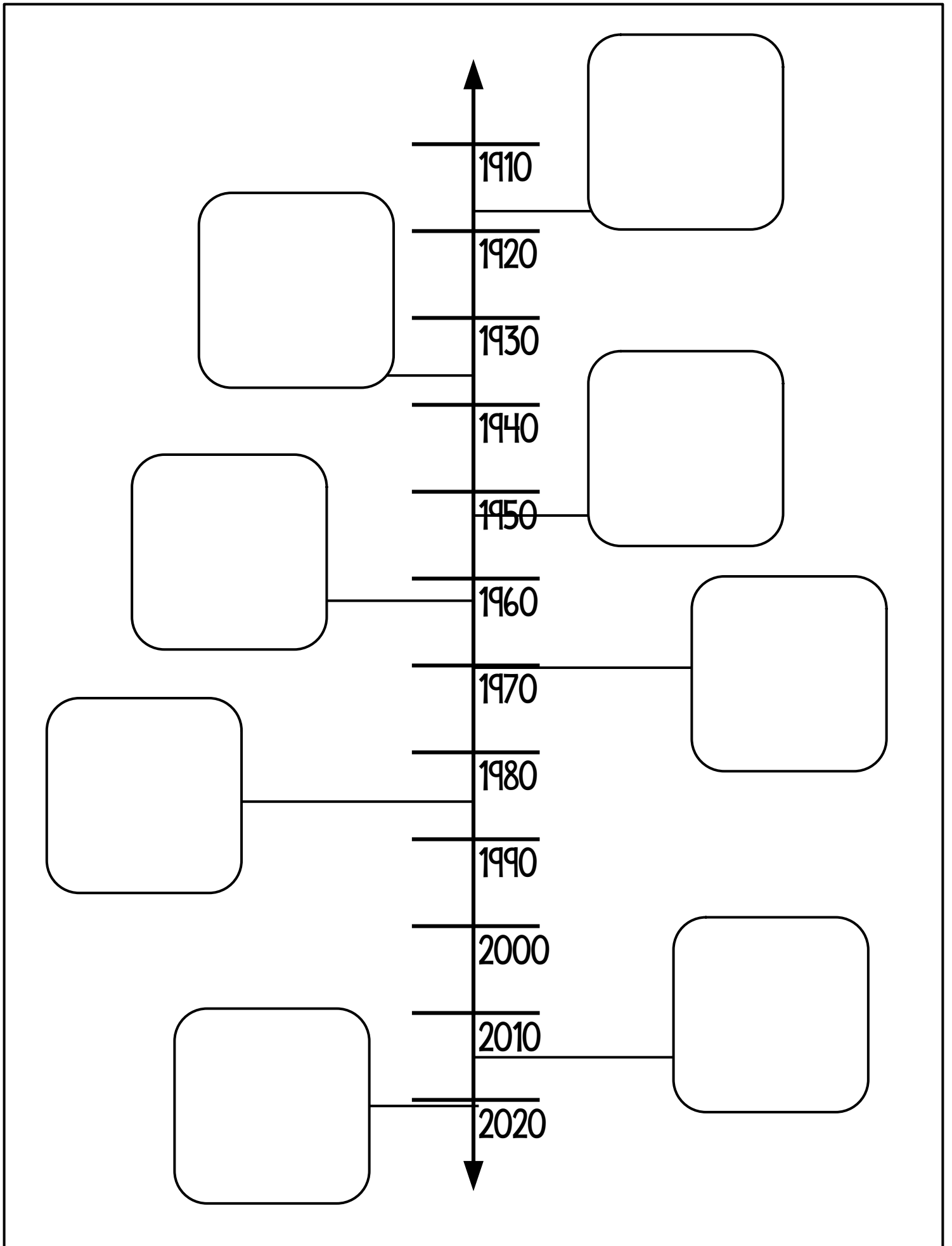
When Katherine started her work at NACA she only allowed to work with other black women. The workplace was segregated by race. When she worked as NASA, she forced her way into meetings only attended by men.

Katherine helped break racial and gender barriers.



I don't have a feeling of inferiority. Never had. I'm as good as anybody, but no better.





Born on
Aug 26, 1918

Graduated
college
1937

Began work
as computer
for NACA
1953

Sent John Glenn
to orbit
Feb 20, 1962

Sent Apollo 13
to the moon
and back
Apr 11, 1970

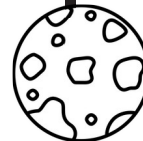
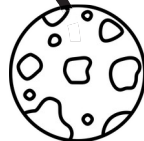
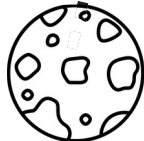
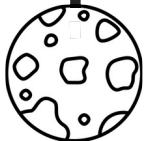
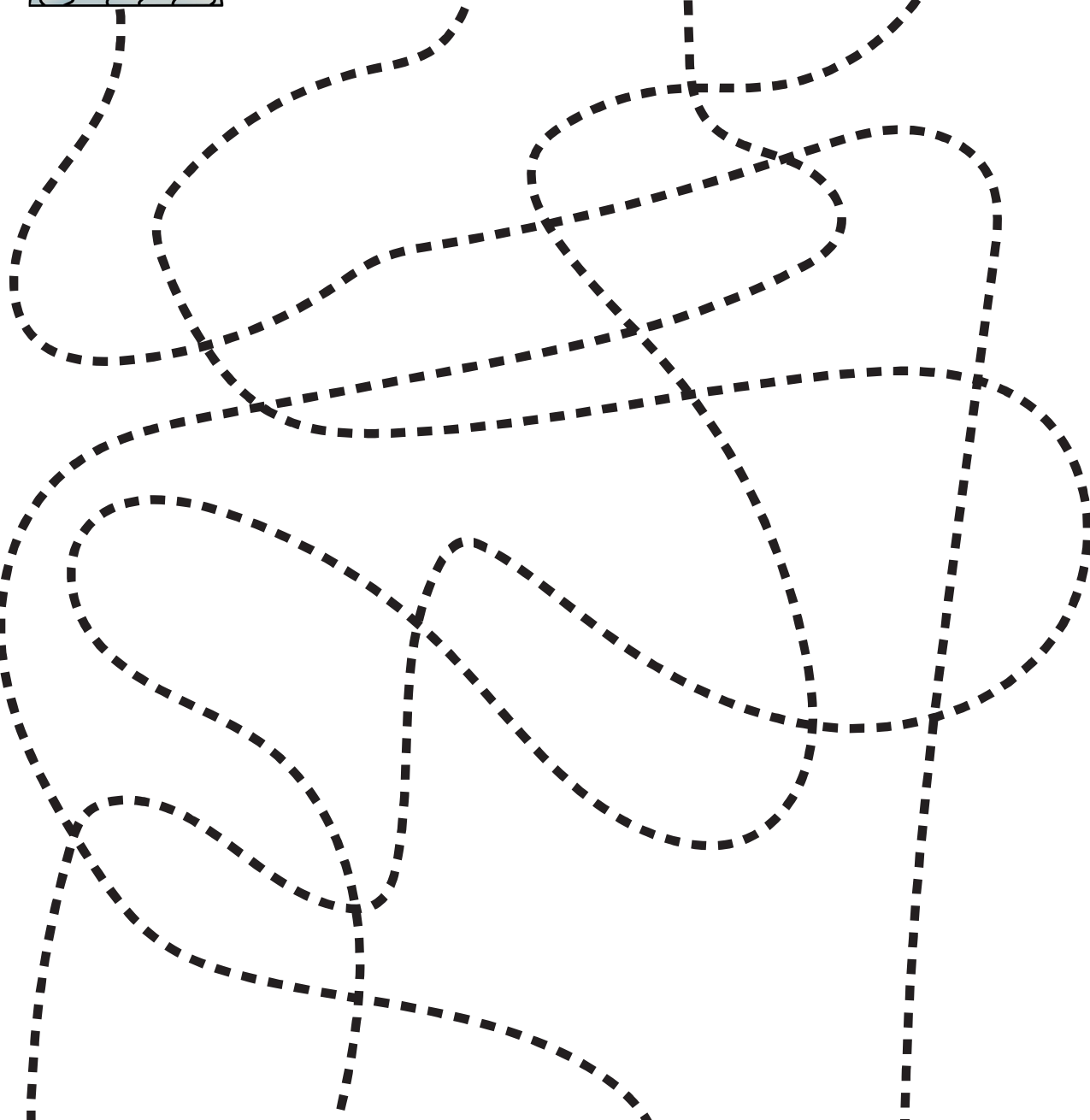
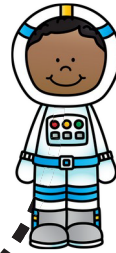
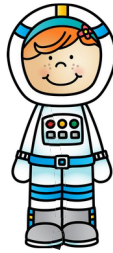
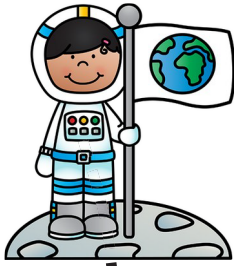
Retired from
NASA
1986

Received
Presidential
Medal of
Honor
2015

Died on
Feb 24, 2020

Katherine Johnson

Lead the Astronauts to the Moon



Katherine Johnson

Rocket Activity

Katherine Johnson was part of a team that did calculations for NASA. They had to use math to determine things such as how much fuel was needed (and how much was too much), the angle they needed to fly, and the speed they needed to go.

Today we're going to see how angles can impact the trajectory of a flying object.

Materials Needed:

- Plastic Cup
- Balloon
- Small objects like cereal, pom pom, or popcorn

First, put together your launcher.

1. Tie the balloon. Then cut the bottom of the balloon off (you should have most of the balloon with the tied part on it)
2. Cut the bottom off of your plastic cup.
3. Attach the balloon to the bottom of the cup. Make sure it is secure. The balloon is usually tight enough to be secure itself. If not, you might need a rubber band.

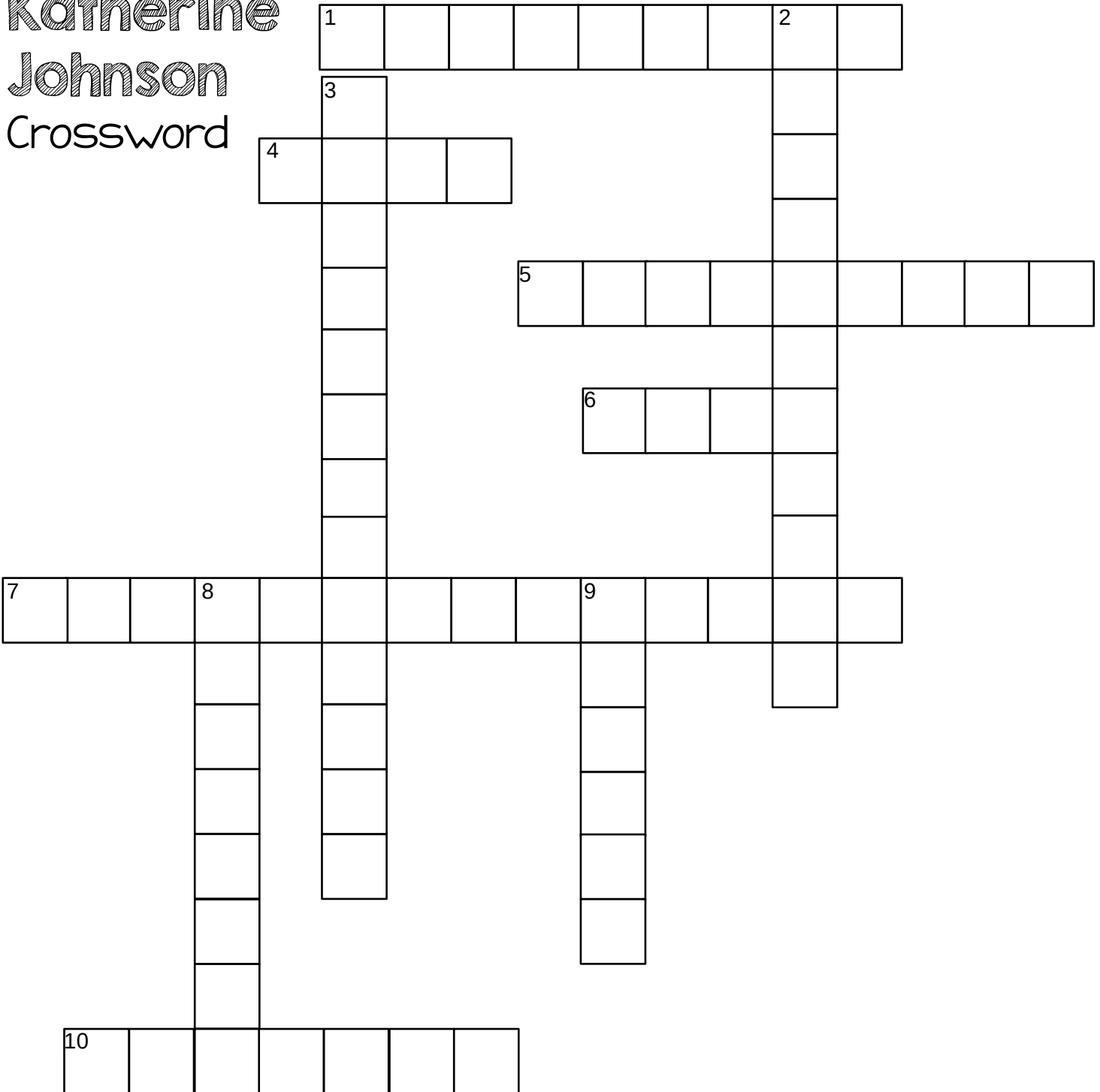
Now for the experiment.

1. Add your small object into the cup and in the balloon.
2. Pull back the balloon using the tied part.
3. Let go of the balloon and watch your object fly.
4. Test different angles to see how far you can get your objects to fly.

If you want to add math and recording in, use a recording sheet to write down the angle used and how far each object flew.

Measure the length each piece goes and repeat, repeat, repeat.

Katherine Johnson Crossword



Across

1. Something Katherine used to help launch spacecraft
4. The U.S. administration for space
5. Johnson's first name
6. The first place she worked as a human computer
7. When people treat others differently based on race, age, & gender
10. Space project

Down

2. When people are separated into racial groups
3. an expert or person who studies math
8. Katherine's job at NACA and NASA was to be a human _____.
9. Missions that sent men to the moon

If you lose your curiosity
then you stop learning
- Katherine Johnson

Handwriting practice lines consisting of solid top and bottom lines with a dashed midline for letter height guidance. There are ten sets of these lines.