# JUMPINGं ROPE 

STEAM Activity

The American Heart Association recognizes the importance of building healthy bodies and minds. This STEAM activity is an introduction to science and math concepts particularly in the areas of Physics.

## Objective:

Students will be introduced to the concept of circular motion, which is a term used to describe revolutions and rotations. Students will conduct experiments using different length jump ropes, and attempt to identify which length jump rope is ideal.

## Materials Needed:

Pencil

Stopwatch

Have you ever wondered how you could jump rope faster? The world record for the greatest number of jumps in one minute is 332, by Beci Dale! That's more than six jumps a second! How close do you think you can get to that number? What are some of the factors that will help you jump faster? One is the length of the jump rope!

## Discussion questions:

- What does something in motion look like?
- How does the length of a jump rope affect how many jumps a person can make in a minute?
- What turns faster, a shorter or longer jump rope?
- What would you do to improve your speed?


Grades K-2

## Jump Rope Lengths

Student Name: $\qquad$ Teacher: $\qquad$ Date: $\qquad$
Match the photos of which rope would work best for each person.


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Grades 3-5 CHALAECE CHALLENCE"

