

# Math Super Speed

## Activity sheet for grades 3–5

Make your visit to the *Speed* exhibition count! Here are some ways you can add math to your Science Museum of Virginia experience.

### Sprint Track

Ready, set, go! Test your speed, then record your score. Write down your time and the times of three classmates. Rank the four times in order from the shortest to the longest. Circle the fastest time.

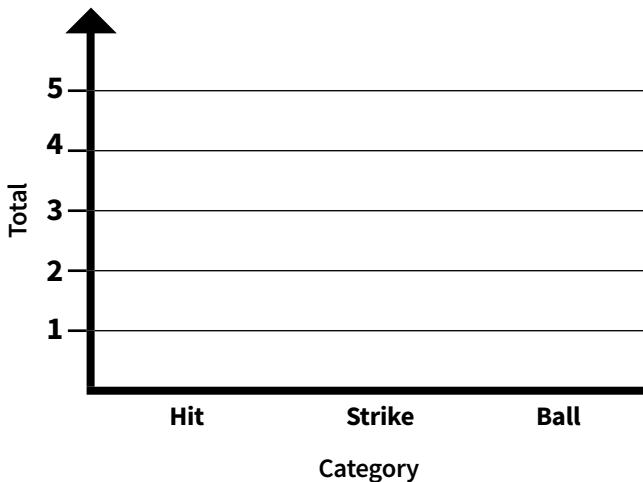
\_\_\_\_\_

Shortest \_\_\_\_\_ Longest \_\_\_\_\_

Answers will vary. The shortest, and therefore fastest, time should be circled.

### Batter Up

Step up to the plate! Record your hits, strikes and balls from one at-bat. Exchange scores with a classmate and make a bar chart to show your summed scores.



Answers will vary.

### Fast Robot

Challenge a robot to air hockey! After the game, ask two people for their scores. Fill in the blanks. While waiting to play, watch the screen above the hockey table for lots of math!

**Score Board**

	Robot	Human
You:		
Classmate 1		
Classmate 2		
Total		

Fraction of total points scored by the robot \_\_\_\_\_

Fraction of total points scored by humans \_\_\_\_\_

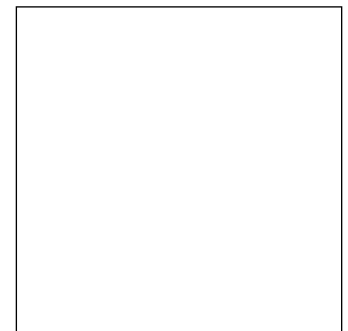
Answers will vary depending on the scores.

### Too Slow to See

Watch erosion in action! Head to the statues near the staircase in the back of *Speed*. Look at the two objects to see how they've changed over time.

Sketch the statue behind glass and draw the line of symmetry.

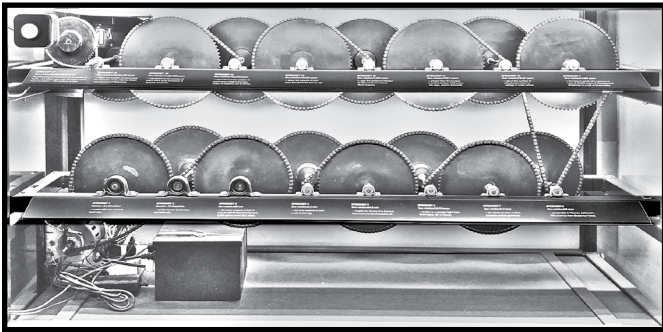
Does the eroded statue have the same symmetry?



Answers will vary.  
The line goes vertically through the center of the face.  
The eroded statue does not have symmetry.

## World's Slowest Machine

Watch it turn and turn! Which sprocket will take the longest time to complete one rotation?



Sprocket 17

## Slowett Downs

It's a tight race! Speed matters even with slow-moving objects.

Which competitor ended up being the slowest?

What was their speed? \_\_\_\_\_

Answers will vary.

## Light Race

Find the special *Speed* exhibit on the Level 2 bridge. Pick two racers and watch them compete through the blue lights on the ceiling.

Who won? \_\_\_\_\_

What was the speed of the winner? \_\_\_\_\_

Answers will vary.

## Fast Facts

### *Quetzalcoatlus northropi*

This prehistoric pterosaur (which isn't a dinosaur) could fly by leaping 8 feet into the air and then flapping its strong wings!



### Pitching Cage

The fastest pitch in Richmond Flying Squirrels history was 102.5 mph. Melvin Adon threw it in the 2019 Eastern League All-Star Game. During Major League Baseball games, a baseball only lasts six or seven pitches because it gets damaged or dirty!



### How Fast?

The speed skating world record is 64 mph. That's faster than many highway vehicle speed limits!

## Just For Fun

### Moon Rock

In December 1972, Apollo 17 – the last mission where humans walked on the Moon – brought back a 6.5-pound rock. NASA gave a piece of that rock to each state. The Science Museum has Virginia's Moon Rock on display! Did you find it?

Pretend you made it to the Moon. Do your favorite victory dance to celebrate!

