Educator Answer Key

Math Super Speed

Activity sheet for grades 6-8

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

How Fast?

Complete the order of operations using numbers found around *Speed*!

$$1200 \div 60 - 12 + (5 \times 8) = 48$$

1200 ÷			х (x) =
	Speed	Weight	•	Speed	Sprocket	•
	of a diver	of the	(of a swimmer	number in the	
	in mph	Racing Bi	ke	in mph	World's Slowest	
					Device that	

Geometry Search

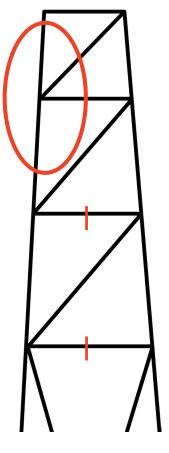
Look at the shape below. Where can you find that design in *Speed*?



Circle one group of angles that add up to 180 degrees (supplementary angles).

Draw tick marks on two parallel lines.

Mercury 7 Capsule, used by astronauts in space travel. Parallel lines are horizontal or diagonal lines, excluding the long, outside framing lines. Supplementary angles are any sets of angles adding up to 180 degrees.



Extreme Weather: Human Wind Tunnel

Feel the wind! Hold this piece of paper at the triangles flat-side up. Which wind speed makes the paper bend and flap the most?

rotates once every 45 days

80 mph

Quick Poll

Ask 5–10 classmates about their favorite part of *Speed* from the five options below. Record the results in a table and create a circle graph from the data.

	Mark Their Favorite	Total
SR-71 Jet		
Quetzalcoatlus		
Sprint Track		
Fast Robot		
Pitching Cage		

0	
Pie Chart (circle graph)	
Key	

Answers will vary.



Outbreak! Spread of Contagion

Become a statistician! Run the simulation with any level of virulence, vaccination and lethality. What was the outcome?

	+		=	
Decreased		Recovered		Total Areas Infected

Fraction of areas that recovered compared to total areas infected:

Is this fraction greater than 1/3? _____

Answers will vary.

Take a Second Look

A blast from the not-so-distant past! Watch the video of the Science Museum entrance today.

What time did you come to the Science Museum?

How many minutes is that before or after school usually starts?

Answers will vary depending on the group, but students should have similar answers.

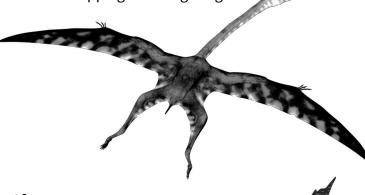
Here Today, Polygon Tomorrow

Draw the largest polygon you see in Speed.

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!



Slowett Downs

Sloths have a slow digestive system compared to other mammals. It takes about 16 days to digest a single meal!



The Olympics started in Greece, where the running track was about 18 times longer than the Sprint Track in *Speed*!



How many sides does it have?_____

Where is it located?_____

Answers will vary. It might be the 10-sided sound dish near the ceiling.

Just For Fun

High-Speed Camera Studio

Make a slow-motion video in the booth near the Cottrell Theater!