



THE AWARD-WINNING PRINT & ONLINE FAMILY FEATURE

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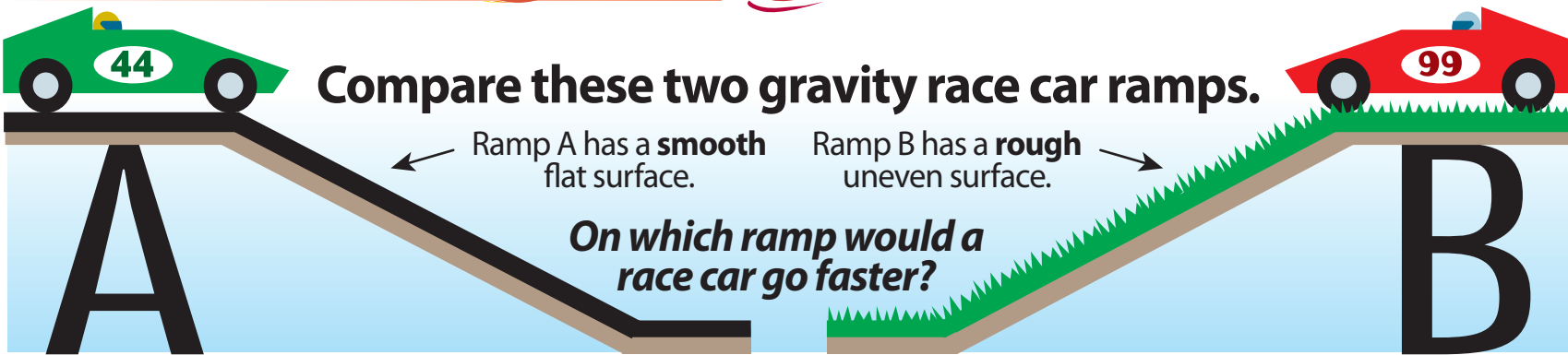


**Who will win the race?**

Take a guess at which car will win the race and have a family member do it, too. Add up the numbers along each track. The car with the lowest number is the winning car. Circle the car that won.

THE SCIENCE OF RACING

**FRICITION: IT CAN REALLY SLOW YOU DOWN**



When a car goes down a smooth surface like ramp A, it will travel more quickly because it has less surface friction.

Ramp B has a rough surface, which creates more friction when the car travels over it, making it go much slower than the car on ramp A.

**What is friction?**

**Friction** is what happens when two things rub against each other. Friction slows or stops moving things. A rolling ball eventually stops because friction between the ball and the ground brings it to a stop.

**See Friction in Action!**

Roll a ball from one end of a basketball court to the other. Pretty easy, right?

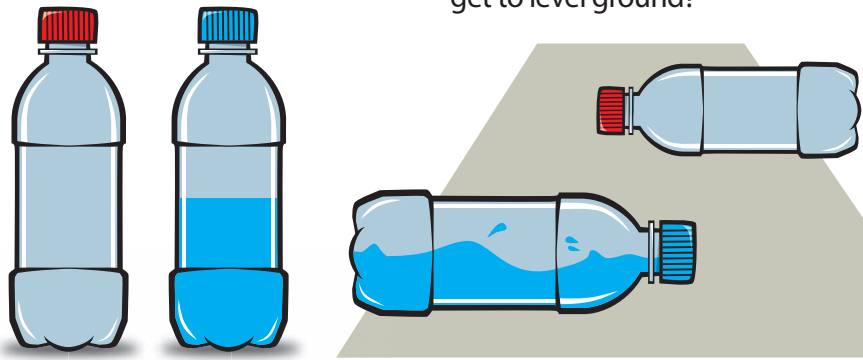
Now try to roll the basketball that same distance on grass or gravel. Friction makes that a lot harder to do!

Have you ever fallen and scraped your knee? Ouch! Friction between the skin on your knee and the hard ground is what made it hurt!



**The Great Bottle Race**

- Get two plastic bottles. Leave one empty. Fill the other halfway with water.
- Starting at the same time, let them roll down ramp. What happens when they get to level ground?



The bottle with the water in it will travel faster at first due to the weight of the water giving it a boost. But on level ground, the water causes friction, which will slow it down, while the empty bottle rolls a longer distance.

**Extra! Extra!**

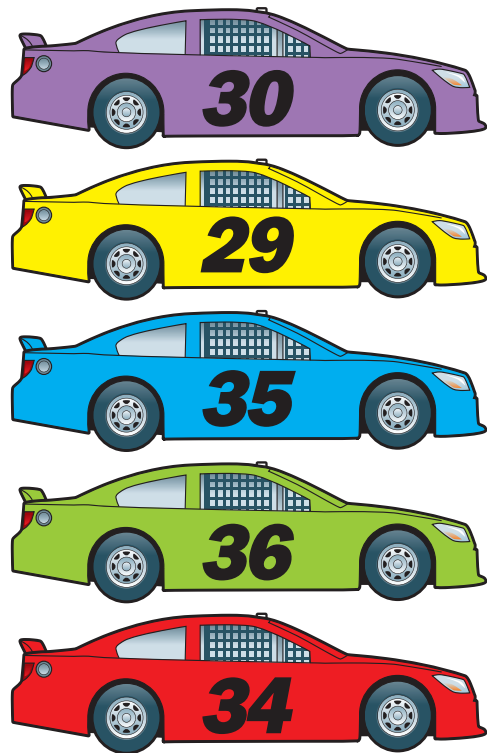
The word *friction* has more than one meaning:

- The rubbing of objects together.
- The resistance an object encounters when moving over a surface.
- A disagreement between people or groups of people; conflict.

Look through the newspaper for examples or images that show one of the definitions of friction.

Standards Link: Research: Use the newspaper to locate information.

**Kid Scoop Puzzler**



Draw a line from each car to the math problem that equals its number.

$$\begin{array}{r} 17 \\ 9 \\ 6 \\ + 4 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \\ 9 \\ 3 \\ + 9 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \\ 11 \\ 7 \\ + 5 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \\ 9 \\ 8 \\ + 8 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ 3 \\ 3 \\ + 9 \\ \hline \end{array}$$

**Double Double Word Search**

- FRICION  
SCIENCE  
ROLLING  
RACING  
FASTER  
SMOOTH  
WHEELS  
RAMPS  
ROUGH  
SMOKE  
STILL  
ROLL  
DRAG  
SLOW  
LESS

Find the words in the puzzle. Then look for each word in this week's Kid Scoop stories and activities.

F W F L L I T S R I  
C H A R T R A M P S  
I E S O I A N O S W  
H E T M G C O K O O  
T L E A F I T E H L  
O S R E C N E I C S  
O D R O U G H F O A  
M S T E L S S E L N  
S R I R O L L I N G

Standards Link: Letter sequencing. Recognized identical words. Skim and scan reading. Recall spelling patterns.

8	3	4
6	5	2
2	2	5
5	9	6
7	7	1
3	3	4
8	1	4
6	2	6
2	1	2
1	5	4
7	9	4
3	2	1
<b>TOTAL:</b>	<b>TOTAL:</b>	<b>TOTAL:</b>

Standards Link: Math: Number Sense: Calculate sums to 100.

**Kid Scoop VOCABULARY BUILDERS**

**This week's word: RESISTANCE**

The noun **resistance** means a force that opposes or slows down another force.

The vitamins in fresh fruit helps build resistance to disease.

Try to use the word **resistance** in a sentence today when talking with your friends and family members.

**FROM THE Kid Scoop LESSON LIBRARY**

**Science News**

Look for three examples of newspaper articles related to science. Tell which science the article relates to. For example, a weather story is related to the science of meteorology.

Standards Link: Scientific Enterprise: Students know that although people using scientific inquiry have learned much, science is an ongoing process.

**Why did the library books slide off the shelf?**

ANSWER: They were in the non-friction section.

**Write On! VAROOOM!**

Invent the car of the future. What would your car be able to do? What features would it have?

CYAN MAGENTA YELLOW BLACK