

STEM OF BASEBALL

*Science, Technology, Engineering, Math

Does a curve ball really curve?

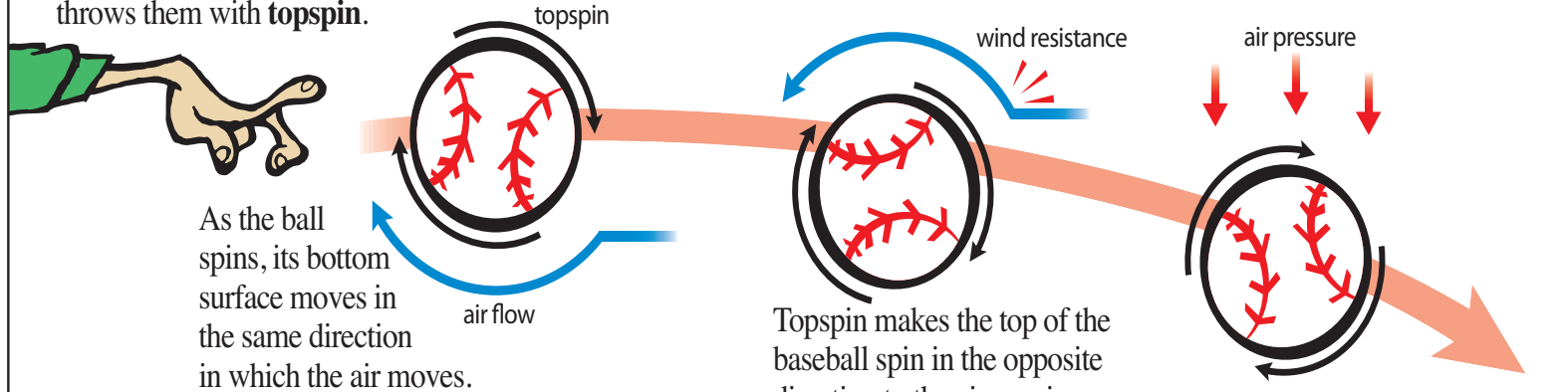


People used to think curve balls were just an illusion. But thanks to technology and the

science of physics, we now know that a baseball actually does curve, as much as 18 inches, when thrown by a skilled pitcher.

Curve Balls: Forces and Motion!

Curve balls start when a pitcher throws them with **topspin**.



As the ball spins, its bottom surface moves in the same direction in which the air moves.

Topspin makes the top of the baseball spin in the opposite direction to the air moving over the ball's surface, creating **wind resistance**.

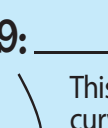
Wind resistance creates higher **air pressure** above the ball which pushes against the ball, making it fly in a curved flight path.

Which pitch is which?

Pitchers can throw several kinds of pitches to confuse the batter. Do the math to discover which is which.



13: This pitch makes the ball curve away from the batter.



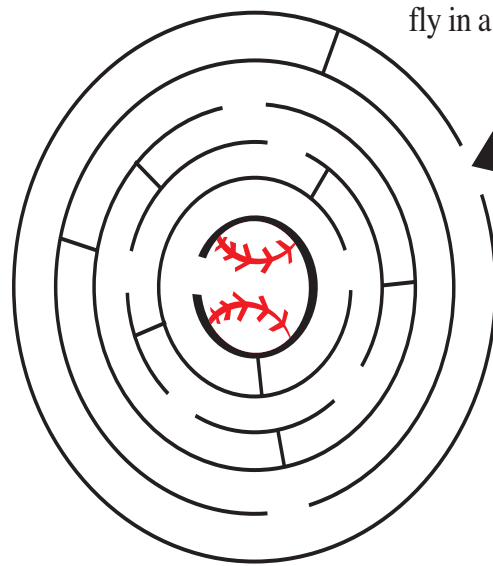
9: This ball curves down and away from the batter.



10: This ball drops suddenly just before it reaches home plate.



7 + 3 = SPLITTER | 7 + 6 = CUTTER | 11 - 2 = SCREWBALL

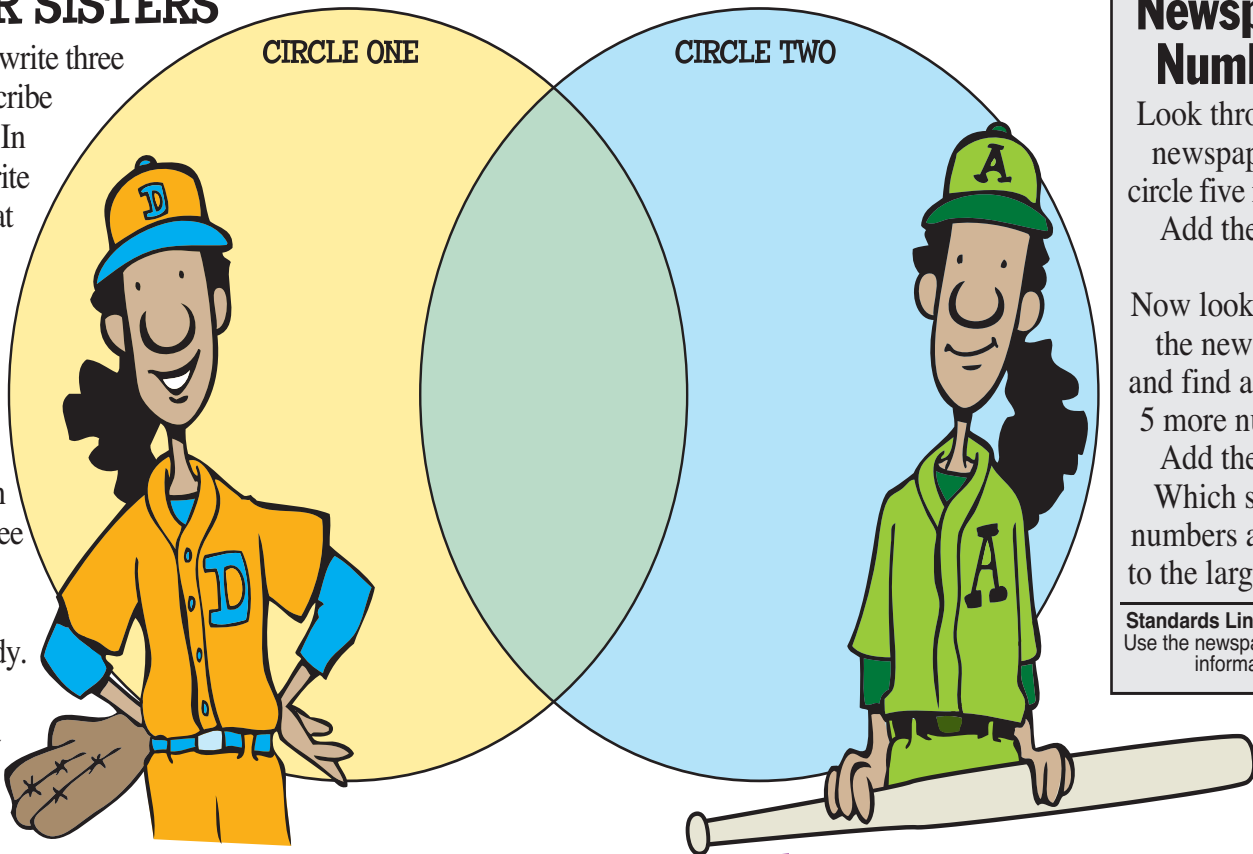


Follow the curved paths to reach the baseball.

SLUGGER SISTERS

In Circle One, write three words that describe Stacy Slugger. In Circle Two, write three words that describe her sister, Sandy Slugger. Where the circles intersect or cross over each other, write three words that describe both Stacy and Sandy.

This is called a Venn diagram.



Extra! Extra!

Newspaper Numbers

Look through the newspaper and circle five numbers. Add them up.

Now look through the newspaper and find and circle 5 more numbers. Add them up. Which set of 5 numbers added up to the largest sum?

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

Kid Scoop Puzzler

At the end of the ninth inning, the numbers fell off the baseball stadium scoreboard. Add up each team's runs to see who won the game.

DRAGONS:

1 1 3 1 4 5 1 1

WOLVERINES:

1 4 2 1 3 3 2 1 0

Double Double Word Search

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

BASEBALL
PRESSURE
SCIENCE
PITCHER
SCORES
FLIGHT
CURVE
PLATE
MATH
GAME
HOME
WIND
BALL
AIR

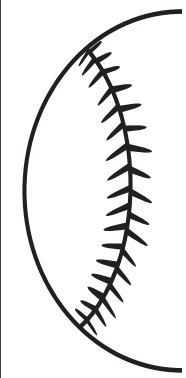
E N G S C O R E S I
Y G O L O N H C E T
P N E L G E U N R H
I R E A I R I E U G
T N M B V G P I S I
C E O E D H H C S L
H Y H S T N S S E F
E P L A T E I I R C
R S M B A L L W P S

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

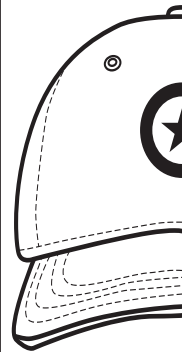
Kid Scoop Together:

Second Half

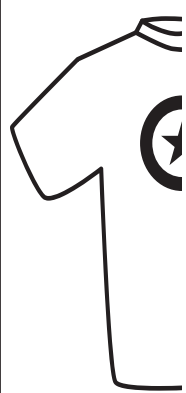
Below are some familiar baseball images cut in half. Each one is divided by its **line of symmetry**. Can you work with a family member to finish each drawing?



baseball



baseball cap



t-shirt



bat

Kid Scoop VOCABULARY BUILDERS

This week's word: **SYMMETRY**

The noun **symmetry** means something that is the same or balanced on both sides of a dividing center line.

A baseball has **symmetry** because it is the same on both sides.

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

FROM THE Kid Scoop LESSON LIBRARY

Baseball Math Fact

Find the score of a game. Create a math fact or number sentence about that score. For example if the Giants beat the Cubs 9 to 3, the number sentence would be $9 - 3 = 6$.

Standards Link: Number Sense: Students write and solve number sentences from problem situations that express relationships involving addition and subtraction.



How is a baseball team similar to a pancake?

ANSWER: The both need a good batter.

Write On!

My Favorite Sport

Write a paragraph telling others about your favorite sport and why it is your favorite.