SNOOPY™ EXPLORES MATH IN SPORTS

Dear Educator,
Spark students' interest in math by relating a popular character to a favorite topic — Snoopy and sports — with these standards-based problem-solving activities and puzzles based on popular sports from around the globe. Developed by the curriculum specialists at Young Minds Inspired (YMI) in partnership with Peanuts Worldwide, these engaging activities will remind students that sports are numbers-based pastimes.

Each lesson is inspired by Snoopy's outgoing, adventurous, and creative personality. Working individually and in teams, students will enjoy learning about how numbers and math are a key part of world championship sports like baseball, surfing, skateboarding, and karate.

Please share this program with other grade 3-5 teachers at your school. And let us know your opinion of the program by visiting ymiclassroom.com/feedback-snoopysports. We look forward to your comments and suggestions.

Sincerely,

Dr. Dominic Kinsley
Editor in Chief
Young Minds Inspired

Questions? Contact YMI toll-free at 1-800-859-8005 or by email at feedback@ymiclassroom.com.

PROGRAM OBJECTIVES

- Motivate students' interest in math by relating it to world championship sports
- Challenge students to use their math skills to solve problems

TARGET AUDIENCE

Students in grades 3-5

HOW TO USE THIS PROGRAM

Download, photocopy, and distribute the three reproducible activity sheets to all students. Prepare the materials for each activity in advance. Visit ymiclassroom.com/snoopysports for standards alignment.

Activity 1
LOADING THE BASES

Hard work and skill are very important in every sport. In baseball, skill and performance are tracked using math. Players are ranked by numbers ranging from RBI (runs batted in) if you are a hitter, to the number of games won, if you are a pitcher. Baseball fans tend to know their favorite players' and teams' numbers or statistics.

Baseball is often called a "game of numbers." Some are obvious and some are hidden. For example, sets of three are hidden in the game. Ask students to identify examples of multiples of three in baseball. (Possible answers: Each batter gets three strikes before they're out; there are two sets of three outs in every inning, which equals six outs; and there are nine innings in every game.)

Tell students that now it is their turn to step up to bat! Working individually or in small groups, ask students to help Snoopy with baseball math by completing the problems on the activity sheet. ***Answers:*** 1. about 180 feet; 2. 6 strikes; 3. about 181 feet and 6 inches; 4. 360 feet; 5. 78 outs; 6. Batting average is .350.

Activity 2
GET ONBOARD!

Surfing and skateboarding are both sports where people balance on a board. Ask students how they think surfing competitions are scored, then tell them that surfers are given points based on the difficulty of the wave (how fast and high it is), and the speed, power, flow, and difficulty of the maneuvers they perform on the surfboard. Skateboarding is scored much like surfing. Skateboarders are given points based on the difficulty of the tricks they perform and how well they perform each trick. Surfing and skateboarding are sports of numbers and math, too.

Now ask students to play their own numbers game. Pass out the activity sheet. Have students work together as a team to solve the math problems and help Snoopy decode an important message about surfing and skateboarding. ***Answers:*** 1. 75 minutes; 2. 5 miles; 3. 103 skateboards; 4. 12 mph; 5. 180 degrees; 6. 64 wheels; 7. 3 pretzels; 8. 6 hours. Decoded phrase: Always wear a helmet!

Activity 3
SNOOPY IS READY TO PLAY!

Tell students that it's time to play a guessing game. Then give them the following clues and ask them to guess the sport: You will be outside to participate in your sport. You will need a special outfit. You watch the tide cycle. And you will NOT need your shoes!

Tell students that the answer is surfing. If time allows, let a few students think of an activity and give clues for the rest of the class to guess.

Explain to students that when you figure out something based on clues, you use deductive reasoning. This means that your brain works logically to eliminate answers that don't fit the clues in order to find the answer that makes the most sense. Deductive reasoning is excellent exercise for the brain, and it teaches students to think logically and make good guesses.

Pass out the activity sheet. Tell students that they are going to use deductive reasoning to figure out which sports Snoopy and Woodstock want to play or do. ***Answers:*** **Part 1.** Snoopy wants to take karate, and Woodstock wants to go skateboarding. ***Answers:*** **Part 2.** See answer key at ymiclassroom.com/snoopysports.

Explain to students that karate is a martial art that is thought to have originated in Japan. The place where people practice karate is called a Dojo. The outfit participants wear is called a Gi. The special belt worn with the Gi comes in different colors. The color signifies how advanced the person is in the sport.

After students complete the word search, take a class poll to see if any students have played or participated in any of the sports or if they would like to try them. This can be extended by having students poll their families and then tally the results as a class.

RESOURCES

ymiclassroom.com/snoopysports

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LOADING THE BASES

Baseball is a game of numbers. Can you help Snoopy with math in baseball? Use the picture to help you solve the math problems below!

SNOOPY™ BASEBALL

There are 4 bases in a baseball diamond.

The distance between each base is 90 feet.

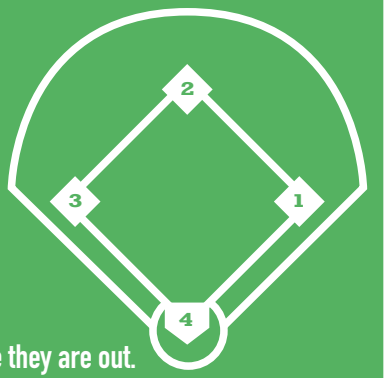
The distance from the pitcher's mound to the back of home plate is 60 feet, 6 inches.

A team has 9 players on the field when not at bat.

A baseball game has 9 innings.

Each team that is up to bat has 3 outs.

Each person that is up to bat gets 3 strikes before they are out.



1. Snoopy's team is on the field. Snoopy is playing first base. There's a player on first. The batter hits a ground ball to Snoopy. Snoopy catches the ball and tags the base, so the batter is out. Then he throws the ball to second base. It's a double play! About how many feet did the ball travel from the time the batter hit it to when the runner was out at second? _____

2. It's the second inning and Snoopy's team is up to bat. Two players strike out one after the other. How many combined strikes were called? _____

3. Snoopy is up to bat. The pitcher throws three pitches. Snoopy gets a hit on the third pitch. About how far did the pitcher throw the ball in those three pitches all together? (**Hint:** There are 12 inches in a foot.) _____

4. Snoopy hit a home run! How many feet did he run as he ran around the bases? _____

5. Snoopy's game went to extra innings! There were 13 full innings played. How many outs were there in the game? _____

6. Snoopy has been up to bat 200 times this season, with 70 hits. What is his batting average? Divide 70 by 200 to find out! Your answer should be in decimal form. _____

Did you know? The highest scoring game in Major League Baseball history was the Chicago Cubs vs. the Philadelphia Phillies on August 25, 1922. The Cubs scored 26 runs and the Phillies scored 23 runs, for a total of 49. Now it's your turn to hit it out of the park! What fun numerical fact about baseball can you find with your family's help? Search the internet and share your fun fact with the class!

GET ONBOARD!

Work as a team to solve these sports math problems and help Snoopy decode a message!

Part 1: Solve each problem below. Write your answer on the line.

1. Snoopy likes to surf. He is scheduled to surf at 1:30 p.m. It's 12:15 p.m. right now. How many minutes does Snoopy have to wait? _____

2. Snoopy has to swim out on his surfboard to "catch" a wave. In the morning, he swam 1 mile, took a break, and then swam another mile. In the afternoon, he swam 3 miles. How far did Snoopy swim today? _____

3. Snoopy decides to get a skateboard. The skateboard shop has 17 micro boards, 25 mini boards, 29 midi boards, and 32 full-sized boards. How many boards in all are in the shop? _____

4. When skateboarding on a flat surface, Snoopy travels about 7 miles per hour (mph). His speed picks up going downhill. How fast does Snoopy travel downhill? Solve this problem to find out: 24 ÷ 8 x 4 = _____

5. Snoopy practices the Pop Shove It 360 trick, which causes the skateboard to rotate halfway through a 360-degree turn. How many degrees will the board rotate? _____

6. Snoopy's friends join him at the skatepark. Now there are 16 friends skating at the park, including Snoopy. If each skateboard has four wheels, how many wheels are in use at the park? _____

7. Snoopy brought 48 pretzel sticks for his friends. If he divides them up evenly among himself and his friends, how many will each skater get? _____

8. Snoopy played hard this weekend. The first day he surfed from 1:30 pm to 5:15 pm. The second day he skateboarded from 9:45 am to 12:00 pm. How many total hours did he surf and skate? _____

Part 2: Now, use the answers to create a letter key. Write each answer from Part 1 on the blank next to the problem number. Then use your key to decode Snoopy's safety rule for kids about surfing and skateboarding. Write the letter for each number on the line above it.

1. E = _____ 2. L = _____ 3. Y = _____ 4. M = _____

5. S = _____ 6. T = _____ 7. W = _____ 8. A = _____

___	___	___	___	___	___		___	___	___	R
6	5	3	6	103	180		3	75	6	

___	H	___	___	___	___	___	!	
6		75	5	12	75	64		

Did you know? The tallest wave ever surfed was a giant, 80-foot monster off the coast of Portugal. And the highest skateboard jump was over 25 feet high. Talk with your family about which sport you'd rather do and why!

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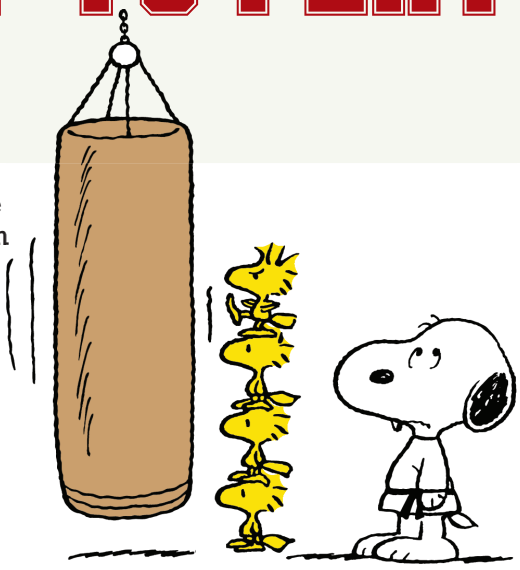
SNOOPY IS READY TO PLAY!

Put your puzzle-solving skills about championship sports to work.



Part 1: Use deductive reasoning and the clues below to figure out which sports Snoopy and Woodstock want to play. **Hint:** Put an "X" in a box when you can eliminate that choice.

- Snoopy needs to wear a specific outfit.
- Woodstock wants to play outside.
- Snoopy does not want to get wet.
- Woodstock does not want to get wet, either.
- Snoopy does not need special shoes.
- Woodstock likes to roll.
- Snoopy will be going to a Dojo.

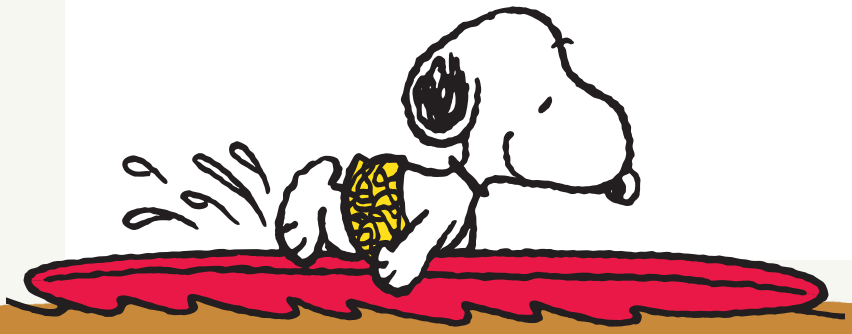
	Baseball	Surfing	Skateboarding	Karate
Snoopy				
Woodstock				

Which sport does Snoopy want to play or do? _____

Which sport does Woodstock want to play or do? _____

Part 2: Snoopy and Woodstock like many sports. How many championship sports names can you find in this puzzle? Hint: There are 10.

TENNIS
VOLLEYBALL
BADMINTON
CYCLING
GOLF
ROWING
RUGBY
SAILING
SOCCER
SWIMMING



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

Did you know? More than 6 million kids in the U.S. participate in martial arts, including karate. Does anyone in your family practice karate? Imagine if you could do one of these activities with Snoopy. Talk with your family about which sport you would choose. Did you all pick the same sport?