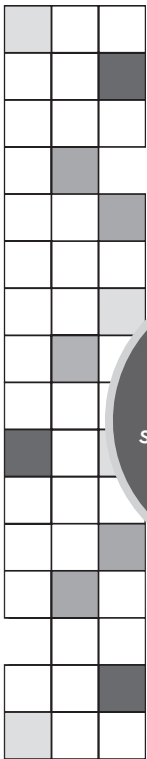




WALK THE MATH PATH

Discover real-world math right at your own school!

A **Math Path** is a way for you to explore outside of the classroom to solve a variety of math problems related to shapes, structures and numbers in the environment.

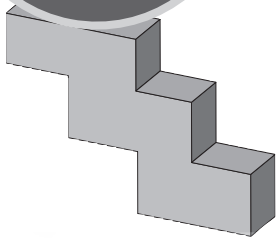


"Math paths" can be found everywhere—from the playground, to the gym, the cafeteria, even a hallway!

It's easy to get started. Agree on an area to explore. Then, with pencil and paper, explore the area and see what you can find. Create some questions and answers of your own!

Or, use the questions here to guide you along. Then go back to your classroom to discuss methods and possible solutions. Have fun!

How many steps on a set of stairs? If there are 4 sets in the school, how many steps are there in all?



SEE WHAT YOU KNOW...

1. How many seats at each table in the cafeteria? How many seats in the whole cafeteria?
2. Is the playground area a square? If so, how can you tell?
3. How could you closely estimate the height of the school? What is your estimate?



Find an average of books.

Choose 5 shelves of books in your library. What is the average number of books for those shelves? For the whole library?

$$\text{VOLUME} = \text{LENGTH} \times \text{WIDTH} \times \text{HEIGHT}$$

- How many tiles are there in the cafeteria?
- How many window panes in a window? How many windows are there on one wall? What is the total amount of panes in all?
- What is the average number of students in each class? What is the estimate of students in the whole school?

What shapes do you see? Can you find a trapezoid, a parallelogram or a hexagon? Sketch and name some shapes you see and where they can be found.

How many bricks are there on one wall? If an average brick weighs 5 pounds, how heavy would the wall be?



$$\text{AREA} = \text{LENGTH} \times \text{WIDTH}$$

How many people standing shoulder to shoulder could circle the entire school? How did you decide?

What is the perimeter of your library?

the cafeteria? the gym? How about the area of each room?