

Name _____

Pick a Project

Project 5A

Go By the Book

The George A. Smathers Libraries are part of the University of Florida. They are one of the largest college library systems in the country. Smathers Libraries have more than 5 million books. They also have 8 million pages online.

The library system is named after George Smathers. He was a U.S. senator from 1951 until 1969.



George A. Smathers Libraries

Your Project Design a Library

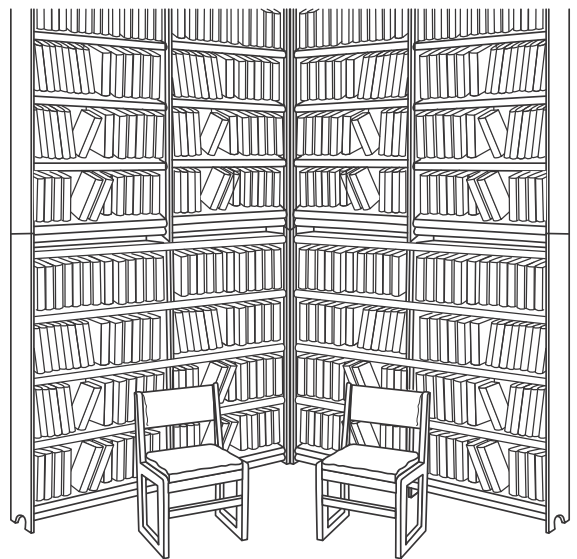
You will design a class library. Choose 7 book types for the library. Some book types are mystery, graphic novels, and science fiction.

Pretend that your library has 205 books. Each book type will have its own bookcase.

Set up your library any way you want, but follow these rules:

- Each bookcase must have at least 4 shelves. Each shelf must hold at least 5 books.
- Shelves within a bookcase must have the same number of books.
- No more than 2 bookcases can have the same number of books.

Make a table that shows the number of books on each bookshelf. Make sure all 205 books are on a shelf!



Name _____

Pick a Project

Project 5B

Roll of the Cube

Where number cubes come from is unknown. Scientists have found number cubes in old Egyptian tombs. They believe the cubes are about 4,000 years old. Other scientists believe number cubes may be even older!

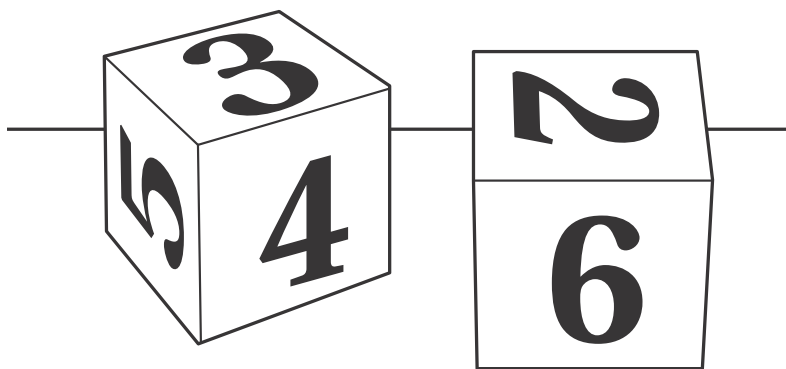
Many board games use number cubes. A person rolls the number cubes to move a game piece. Toward the end of the 1960s, rollers with more than 6 sides became popular. There are some rollers that have 20 sides!



Your Project Make a Multiplication Game

Use two number cubes to make a game. Call the game: Ready to Roll!

First, do some research about how some games with number cubes are played. Look for games with interesting rules and ways to use number cubes.



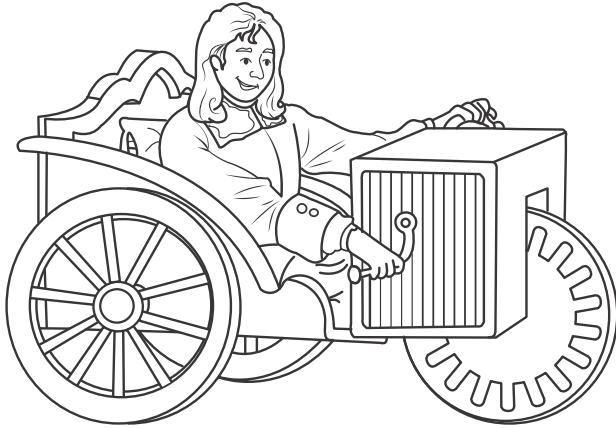
Make sure your game uses multiplication. For example, you can have a player roll two number cubes and multiply them. The rules are up to you. Be creative and make sure your game has a goal and a winner!

Name _____

Pick a Project

Project 5C

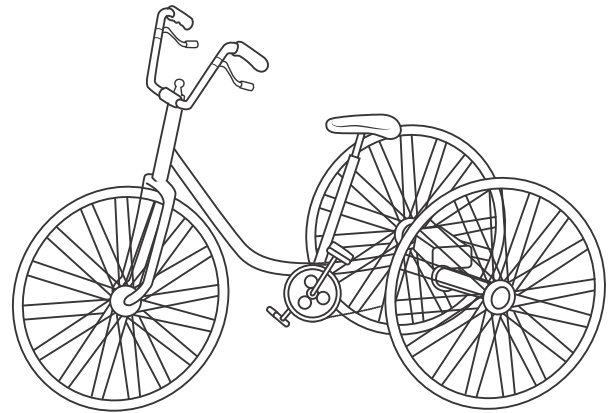
Three Wheeling!



Stephan Farffler was a watchmaker with a physical challenge. He wanted to move and travel more easily. So he invented a 3-wheeled wheelchair. Because he knew how watches worked, he made his 3-wheeled chair move using hand cranks.

In 1876, English inventor James Starley created the Coventry Rotary. It also used 3 wheels. The Coventry Rotary used a chain to make the wheels move.

Today, young and old people enjoy riding tricycles of all different sizes and styles.



Coventry Rotary

Your Project Create a Bike Chart

Survey the number of bicycles and tricycles (or 3-wheeled strollers) at 11 different playgrounds, schools, libraries, or other areas with bicycles and tricycles. Record the number of tires at each location.

Create a chart that shows the total number of wheels at each location. Then write division equations to represent how many bicycles or tricycles were at the location. Write a brief description about how you recorded your data.

