

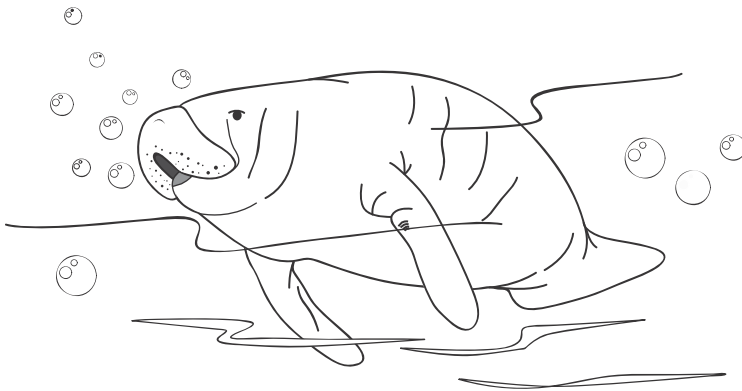
Name _____

Pick a Project

Project 1A

All About Manatees

Manatees, sometimes called sea cows, are large, gentle marine mammals that live in warm waters. Manatees are found in the Caribbean Sea, the Gulf of Mexico, the Amazon River basin, and in West Africa. Florida manatees are able to live in both the salt water of the ocean and the fresh water of rivers.



Manatees are herbivores, and they can eat for up to 7 hours per day.

Manatees are considered vulnerable to extinction and are protected from hunting.

Your Project Create a Manatee Poster

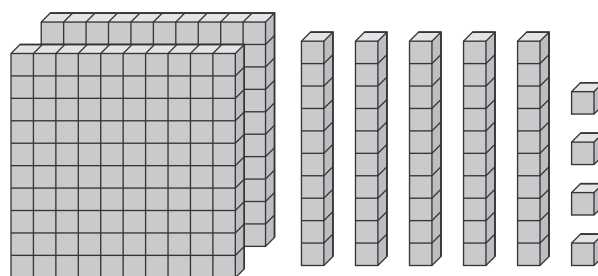
Research manatees in the library and online. Create a poster about the manatees that live in and around Florida. Include facts about their size, life span, population size, diet, and habitat, and anything else you find interesting.

For facts that are numbers (for example, population size), write the number name, standard form, and expanded form.

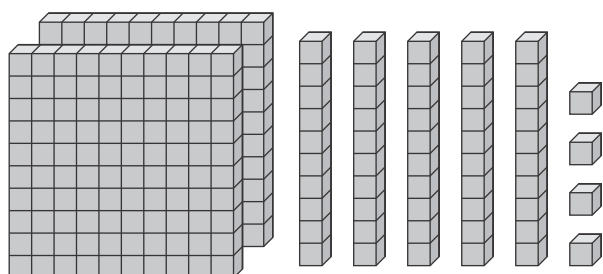
Playing with Blocks

Board games can use pieces in different ways. The game Jenga® is played by carefully removing wooden blocks from a stack. The games checkers, chess, and Go are played with different pieces with specific rules for how they can move around the game boards. In the game Monopoly®, each player moves a piece called a token around the board. The game also has dot cubes, cards, and house and hotel pieces—players can exchange 4 houses for 1 hotel. Players in the game Rummikub® draw 16 tiles that must be played according to the rules. The winner is the first to play all their tiles.

Place-value blocks are pieces of different sizes that can be used to model a wide variety of numbers. The same place-value blocks can represent values from whole numbers through thousands to decimal numbers through thousandths and beyond.



Place-value blocks showing the whole number 254



Place-value blocks showing the decimal number 2.54

Whether the place-value blocks show whole numbers or decimal numbers, they can be combined and separated to show addition and subtraction. They also can be compared to determine which number is greater or less.

Your Project Design a Game with Place-Value Blocks

Create a game for 2 or more players that involves comparing groups of place-value blocks. Your game can use dot cubes or spinners, and you may create a game board, cards, rules, instructions, or anything else that your game needs. The game must be able to be played using whole numbers or decimal numbers.

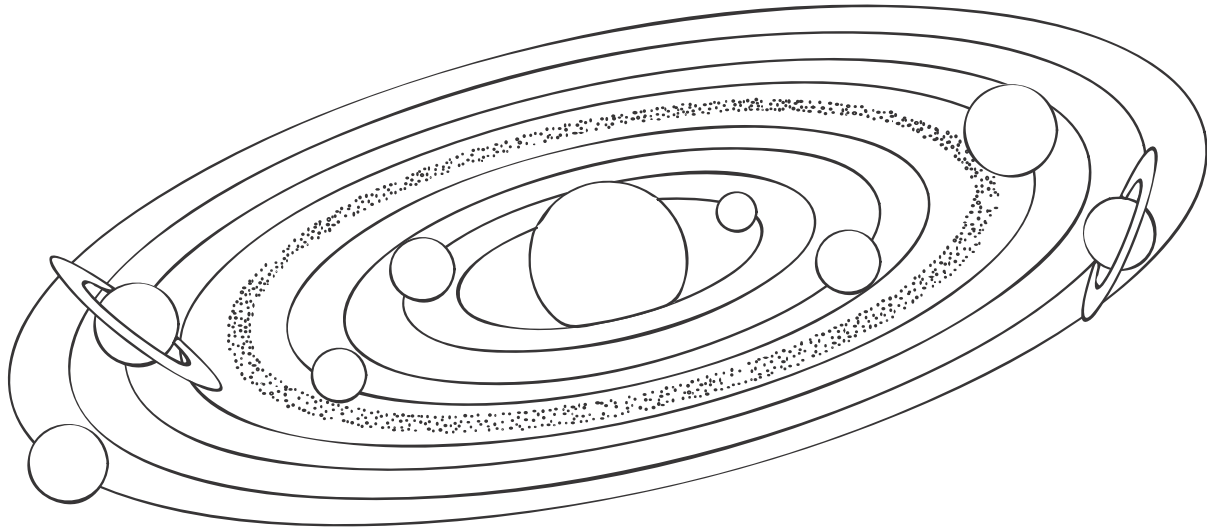
Name _____

Pick a Project

Project 1C

Planetary Distances

Distances between the sun and the planets in our solar system range from millions to billions of miles. Because those distances are so great, scientists sometimes write them in scientific notation. Scientific notation is a number multiplied by a power of 10. For example, 2,000,000 written in scientific notation would be 2×10^6 .



Your Project Research Measurements in Our Solar System

Use books or the internet to research the distance from the sun to each planet in our solar system. Create a chart to record each distance, in miles, in both standard notation and scientific notation. Round the distances to the nearest 100,000 miles to make them easier to work with.

Also include other interesting measurements, such as the distance Mercury travels in one trip around the sun, the size of Jupiter's Great Red Spot, or the time it takes Neptune to revolve around the sun.