

# We are going to make raised garden beds and grow plants this spring while school is closed! Help us out!

## Directions:

Read the description below. Then, do the word problem below it.

## Part One: Cheap Raised Garden Bed

You'll need six cedar fence posts for one raised bed. The reason we went with cedar fence posts is because it was the only affordable cedar that our local lumber yard had on hand. Plus, it's just a really cheap way to go. The posts cost around \$2 each, making each cedar raised bed cost less than \$15 total. We also repurposed some lumber we had on hand to join the corners.

Now, we went with cedar because it is naturally rot-resistant, and we didn't want to purchase treated lumber because we didn't want that treatment leaching into the garden, the soil, and our food.

So let's grab some lumber and your tools, and let's get to building these cheap raised garden beds.

Problem #1	We are making four raised garden beds. Approximately how much money will it cost?
<b>Show your answer with numbers</b> <b>Label your answer</b>	
Show your answer with <b>pictures and words</b> (array, bar model, group dots model)	





## What can you plant in raised garden beds?

You can plant most vegetables, herbs, and flowers in a raised bed. Some ideas include:

- Asparagus
- Tomatoes
- Peppers
- Carrots
- Leafy Greens
- Herbs
- Potatoes
- Squashes
- Beans
- Peas

You can also grow some fruits like: strawberries, watermelon, melons, currants, raspberries, blackberries, and even blueberries.

## Research #1

**What vegetables would you like to plant in your garden?**

Find out when those seeds need to be planted in the area that you live. Each area has a different seed start time, plant time and grow time outside.

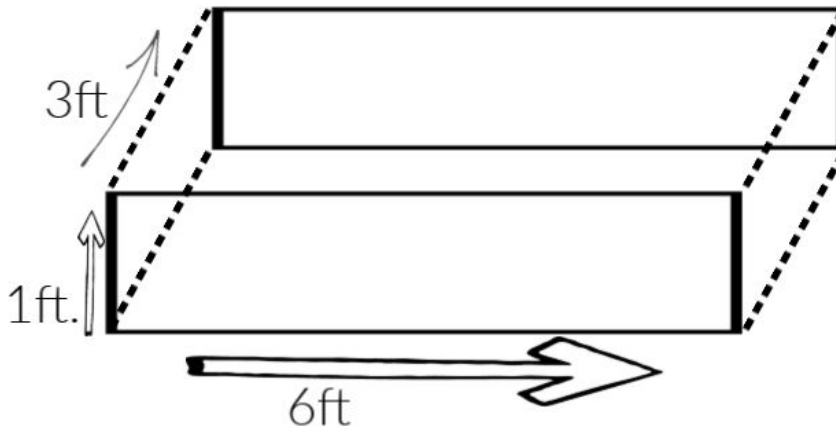


## How deep should a raised garden bed be?

A raised bed should be a minimum of 6-12 inches deep, so there is enough room for your plants to develop a good, deep root system, but you can make the raised bed as deep as you would like. If your bed is not 12 inches deep, you could dig out a bit of the ground before adding the dirt to make it deeper.

## Math Challenge #2

We plan to make our 4 garden beds 12 inches deep. Each bed will be 6ft in length and 3ft. In width. I've made a drawing of the flower bed below. Your job is to figure out the perimeter, area and the volume so that we can decide where to place the beds in the backyard, how many plants we can fit, and how much soil we will need.



### Formulas:

**Perimeter**= the total distance around the sides of the rectangle.

side +side + side + side

**Area**= the total amount of surface space a 2 dimensional object takes up (this is the amount of room we'll have to plant seeds)

length x width

**Volume**= the total amount that can fill the space of this object. We will need to know the volume of soil we can use to fill the beds.

Length x width x height (or depth)

**Given the dimensions of the bed at 6ft length, 3 ft. width, and and 1 ft. deep, what is the perimeter of the garden bed?**

**Given the dimensions of the garden bed, what is the area we have for planting seedlings?**

**Given the dimensions of the garden bed, what is the volume? We need to order the correct amount of soil to plant our seedlings in.**