

## Seed to Harvest Weekly Bonus Challenge

For those of you who want to dig a little deeper...We will give you prompts to add entries to your own Science Journal. (You can actually use this journal for all of the lessons where we ask you to write or draw something.) This is designed for 3 grade or older students, but all science and nature explorers are welcome to join.

### **You will need a couple of supplies:**

- A notebook (or 10 + pieces of paper)
- A pencil
- Optional: colored pencils, markers, crayons, watercolors

### **Each week record the following:**

1. The date
2. The time
3. The weather outside (you can find the temperature, or write out “sunny” or “rainy” or even draw a picture of the weather if you like)

*Weeks 1-9 can be found below*

## Week 10

Go back and re-watch today's video.

Write out the stages of the plant life cycle.

Choose some images from the past 10 weeks to sketch to show the stages of the life cycle.

### **Bonus question:**

How many pepper fruits do you think each pepper plant will produce?

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## Week 1

Go back and watch the video again, pause the video when it comes to the picture that shows the seed, draw the seed to scale in your plant life cycle journal. Label it according to the names you see on the seed pack.

Think of your favorite fruit or vegetable. Do a Google search to see if you can find what the seed for your favorite fruit or vegetable looks like, draw that seed and label it in your nature journal.

## Week 2

See week one for a list of supplies needed for this weekly Science Journal activity.

Go ahead and label your science journal for today:

1. The date
2. The time
3. The weather outside (you can find the temperature, or write out “sunny” or “rainy” or even draw a picture of the weather if you like)

Now, go back and watch the video again, and pause it when it comes to the Seed Pack portion. Take some time study the front and back of the seed pack (you will have to pause a play it to see both sides)

1. Write down a list of what you notice is on the seed pack. Now pause the video again when it comes to looking at the side of the seed pack, write down the list of this information.
2. Once you have all the information you need, create your own seed pack for a pepper plant. How would you design your seed pack?
3. Think again to your favorite vegetable or fruit, design a seed pack for this fruit or vegetable.

## Week 3

See week one for a list of supplies needed for this weekly Science Journal activity.

As you did in the past 2 weeks, label your science journal for today:

- The date
- The time

- The weather outside (you can find the temperature, or write out “sunny” or “rainy” or even draw a picture of the weather if you like)

Go back and rewatch where we are thinning the seedlings-- choose 1 or more plant examples to pause the video and look at in more detail.

Sketch a picture of what you see before and then after the thinning (you can do one sketch, or multiple sketches). Label the sketch to show what you are doing.

*\*\*A sketch is a quick and light drawing with as many details as you can see that scientists use to understand how something works. We are using our sketches to better understand plant growth and the plant lifecycle of a pepper plant.\*\**

**Something to think about (and write about in your journal):** Would you have picked the same plants I did? Why or why not?

## Week 4

See week one for a list of supplies needed for this weekly Science Journal activity.

As you did in the past weeks, label your science journal for today:

- The date
- The time
- The weather outside (you can find the temperature, or write out “sunny” or “rainy” or even draw a picture of the weather if you like)

Go back and rewatch where we are looking at the seed leaves and true leaves side-by-side.

*Remember: A sketch is a quick and light drawing with as many details as you can see that scientists use to understand how something works. We are using our sketches to better understand plant growth and the plant lifecycle of a pepper plant*

Take some time and sketch what you see; both the seed leaves and the true leaves. Make sure to label what you see.

## Week 5

Using the [Measuring Plant Growth](#) video, create a list of all the plants and how tall they are for each week, and then create a growth chart for our pepper plants.

Go back and pause the video at each measurement (5 measurements per date) and create a list of all the plants and how tall they are above the soil. On a separate page, add 2 inches to each of the recorded measurements (for the roots of the plant). Once you have these new measurements you can add them to your plant growth chart. Use the video to help you along-- this week we are really putting you to the challenge! Have fun.

## Week 6

This week the bonus challenge has two parts:

1. Create a chart for all the plants as suggested in the video
2. Go back through the video and pick one plant to sketch from the first count all the way through to the final count.
  - a. Write the date for each sketch
  - b. Sketch with as much detail as you can
  - c. You can create sketches of the leaves themselves in addition to sketching the plant
  - d. You can put all your sketches on the same page, or use a separate page for each

## Week 7

Go back and watch the video again and make a list of the supplies you need to get ready to transplant peppers.

Follow the link to the Soil Recipe, record the soil recipe in your Garden/Science Journal

Bonus questions:

How many pots will we need for the Wonder Bell Plants? What about the Jalapenos?



## Week 8

Go back and watch the video again and write down all the steps for transplanting.

*Bonus:* Draw a picture of the various steps

## Week 9

Review what you have learned so far this session