

Life Science class, 4/22 data

PLEASE NOTE THAT THESE NEW DATA ARE FOR AFTER OUR VEGETABLE PLANTS AND FLOWERS WERE TRANSPLANTED OUTSIDE IN THE GARDEN BOXES

The following measurements will provide data for us to compare the rate of growth for plants outside versus inside. Therefore, start a new section in your notebooks and label it 'Data for vegetables plants and flowers in the outside garden boxes.' Since we have a test this week, next week we will calculate growth rates and make graphs for the different types of plants we grew indoors.

Please record these new data for the following dates:

April 12th (one week after transplanting and planting new seeds outside)

LEFT box: 2 **sunflower seeds** sprouted and new leaves are still in the seedpod. Heights are 1.1 cm and 2 cm. **Tomato plant** heights are 9.5 cm, 8.5 cm, 8 cm, and 8 cm (I will always report data for these four plants in the same order, so you can compare growth rates). **Greenbean** heights are 4.5 cm (from a seed we grew inside) and 1.1 cm for a newly sprouted seed (the leaves are not in a seedpod). **Watermelon** heights are 7.5 cm, 6 cm, 7.5 cm, and 5.8 cm (again, the order I report these will not change). **No nasturtium seeds had sprouted** (I hope you looked up nasturtium on the internet).

RIGHT box: 1 sunflower seed sprouted and new leaves are still in the seedpod. Height = 3 cm. **Tomato plant** heights are 7.5 cm, 7.1 cm, 5.4 cm. No **Greenbean** seeds had sprouted. **Watermelon** heights are 12 cm, 8 cm, and 9 cm. I

transplanted two **basil plants**, but can only find one that is too small to measure. **No nasturtium seeds had sprouted.**

April 16th, all plants now have multiple leaves (instead of just two)

LEFT box: 3 **sunflower seeds** and the heights are 6.3 cm, 6 cm, and 5 cm. **Tomato plant** heights are 11 cm, 10.4 cm, 10.8 cm, and 9.8 cm. A total of two **greenbean** seeds had sprouted in addition to the original plant. Heights are 4.9 cm, 1.4 cm, and 2.7 cm. **Watermelon** heights are 7.5 cm, 6 cm, 7.5 cm, and 5.8 cm (no change in heights). **Two nasturtium seeds had sprouted** and the heights are 3.5 cm and 5.5 cm.

RIGHT box: Only 1 **sunflower seed** had sprouted and the height is 5.7 cm. **Tomato plant** heights are 8 cm, 8.7 cm, and 6 cm. No **greenbean** seeds had sprouted. **Watermelon** heights are 12 cm, 8 cm, and 9 cm (no change in heights). The lone **basil plant** is still tiny. **Three nasturtium seeds had sprouted.** The heights are 3.5 cm, 2 cm, and 3.6 cm.

April 19th

LEFT box: 4 **sunflower seeds** have now sprouted. The heights are 9.1 cm, 9 cm, 6 cm, and 2 cm. **Tomato plant** heights are 11 cm, 11 cm, 11.1 cm, and 10.1 cm. **Greenbean** heights are 6 cm, 2.3 cm, and 4.1 cm. **Watermelon** heights are 7.5 cm, 8 cm, 8.5 cm, and 7.1 cm. Another **nasturtium seed had sprouted.** The heights are 5.1, 9 cm, and 3.1 cm.

RIGHT box: Still just 1 **sunflower seed** has sprouted and the height is 7 cm. **Tomato plant** heights are 8.7 cm, 8.8 cm, and 6.5 cm. One **greenbean** seed had

sprouted and the height is 1.7 cm. **Watermelon** heights are 12 cm, 8 cm, and 9 cm (no change in heights). The lone **basil plant** is 0.5 cm. The **nasturtium** heights are 5.5 cm, 3.2 cm, and 5.4 cm.

Look over these data and think about the rates at which the plants grow. Do the vegetables and flowers seem to be growing at the same rates? Please keep in mind that the left box had food scraps composted in it for three months, and the worm farm was added to it as well. Is it too soon to tell if this has caused seeds to sprout sooner and grow faster than in the right box?

New data for bird sightings include: April 11th tufted titmouse, mourning dove, male and female cardinals, black-capped chickadee, and (red) house finch; April 12th male cardinal, mourning dove, (red) house finch; and April 13th male and female cardinals, black-capped chickadee, (red) house finch, and mourning dove. **Please record these sightings in your notebook.**

Over Spring Break, the squirrels wrecked havoc with our bird feeder. One day it was lying on the ground and another day the tray had been knocked askew so the food ran out. I also noticed the resident black cat was always at the feeder when I arrived at school during break. Therefore, I have stopped feeding the birds for a while.