

St. Mary's Academy
2022 Summer Assignment
AP Biology

AP Biology Summer Assignment 1

Grow the largest radish! (Estimated time to full growth: 27 days)

It sounds simple because it is. You will be given 25 radish seeds (though you are welcome to procure your own), and your goal is to end the summer with the largest (by mass) single radish.

Throughout the summer, treat this as an experiment! Record the conditions of your plants (both control and experimental groups), the frequency of watering, and/or whatever you think will provide you the edge over your classmates! At the very least, you should keep a weekly record of the growth/progress of your radishes.

Be careful and detailed with your observations and write-up. This will be your first Lab grade of the semester!

The students with the largest radishes will receive extra credit on the Unit 1 Test.

AP Biology Summer Assignment 2!

DUE: 8-9-2022

Take a selfie and write appropriate description for **EACH** item on the list below. **Each object** (selfie) can count only for one item on the list!

Next, create a 51 slide Powerpoint with your images and descriptions. The first slide should be the title and the rest should be the topics in order!

You may work with other AP Biology students on this assignment!

Example of description to go with selfie:

The bee in the photo below is serving as a **(41) pollinator**. The bee will move from flower to flower feeding on the nectar the plant has to offer. As the bee feeds on the nectar it will rub up against the pollen produced by the flower's stamen. Some of the pollen will adhere to the bee's body. When the bee moves to a new flower, some of the pollen attached to its body will stick to the sticky stigma of the female's pistil on the new flower. This is known as cross pollination, where the pollen of one flower is used to fertilize the egg of a different flower.

Scavenger Hunt List:

1. commensalism
2. phototropism
3. parasitism
4. predator-prey relationship
5. a primary consumer
6. mimicry
7. secondary succession
8. a secondary consumer
9. a decomposer
10. a simple food chain
11. an abiotic factor
12. evidence of decomposition
13. evidence of human impact on an ecosystem
14. an example of cryptic coloration
15. a community
16. a gymnosperm
17. an angiosperm
18. evidence for artificial selection
19. a plant adaptation
20. an animal adaptation
21. genetic variation within a population
22. genetically modified organism
23. an autotroph
24. cuticle layer of a plant
25. a wind dispersed seed
26. a scavenger
27. a lichen
28. a producer
29. an amphibian
30. an animal track
31. a sporophyte
32. a reptile
33. tree rings
34. a dicot leaf
35. mutualism
36. C3 plant
37. C4 plant
38. CAM plant
39. a flower
40. a fungus
41. a pollinator
42. Moss
43. a monocot leaf
44. a heterotroph
45. a population
46. exoskeleton
47. a biome
48. meristem
49. Gametophyte
50. FREE SPACE-
something fun