Natural Selection Lab

**Procedures**:

1. You will pick an animal to represent your team. Each team will be the lab table (4).
2. Each team will have to “hunt” to capture as many prey as you can in 30 seconds. Each person will go once and have 30 seconds. Once you capture as many “prey” as you can, you must go back to the start line and count the different colored prey. (Please be sure to return the toothpicks to the proper color coffee can)
3. Record the number of prey of each color in the chart below.
4. You will then have a second round representing a second season. You must go “hunting’ in the same order as before.
5. Graph the class totals on the graph on the following page

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Round 1 | green | yellow | Red  | blue |
|  Hunter 1 |  |  |  |  |
| Hunter 2 |  |  |  |  |
| Hunter 3 |  |  |  |  |
| Hunter 4 |  |  |  |  |
| total |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Round 2 | green | yellow | Red  | blue |
|  Hunter 1 |  |  |  |  |
| Hunter 2 |  |  |  |  |
| Hunter 3 |  |  |  |  |
| Hunter 4 |  |  |  |  |
| total |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Round 1 | green | yellow | Red  | blue |
| Class totals Hunter 1 |  |  |  |  |
| Class totals Hunter 2 |  |  |  |  |
| Class totals Hunter 3 |  |  |  |  |
| Class totals Hunter 4 |  |  |  |  |
| total |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Round 2 | green | yellow | Red  | blue |
|  Class totals Hunter 1 |  |  |  |  |
|  Class totals Hunter 2 |  |  |  |  |
| Class totals Hunter 3 |  |  |  |  |
| Class totals Hunter 4 |  |  |  |  |
| total |  |  |  |  |

NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ SCI# \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

NO LAB REPORT DUE. THESE QUESTIONS MUST BE ANSWERED FOR A LAB GRADE. YOU MUST ALSO INCLUDE A GRAPH OF THE CLASS TOTALS. THE GRAPH IS 50% AND MUST HAVE PROPER AXES, A KEY AND COLOR CODING.

1. Was there a difference in the number of “prey” caught based on the color? What percentage difference was there for each round?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What would cause the difference, if any? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. What would happen to the prey that survived? Consider what dead things DO NOT do…. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
3. What do you think would happen after several generations? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
4. Would there be any difference to the prey population if grass was red? Explain. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_