



TRUCKEE MEADOWS PARKS FOUNDATION

AWARENESS • APPRECIATION • STEWARDSHIP



Watch the TMPF R and K game video using the QR code. Play the R and K game two times, once as a K species and once as an R species. Fill out the tables below.

I am a _____.

I am a _____.

My species is a K or R species (circle one).

My species is a K or R species (circle one).

| Round # | Scenario | # of Babies left |
|---------|----------|------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

| Round # | Scenario | # of Babies left |
|---------|----------|------------------|
| 1 | | |
| 2 | | |
| 3 | | |
| 4 | | |
| 5 | | |
| 6 | | |
| 7 | | |
| 8 | | |
| 9 | | |
| 10 | | |

For more info, watch the Student Stewards Science Videos, check out:

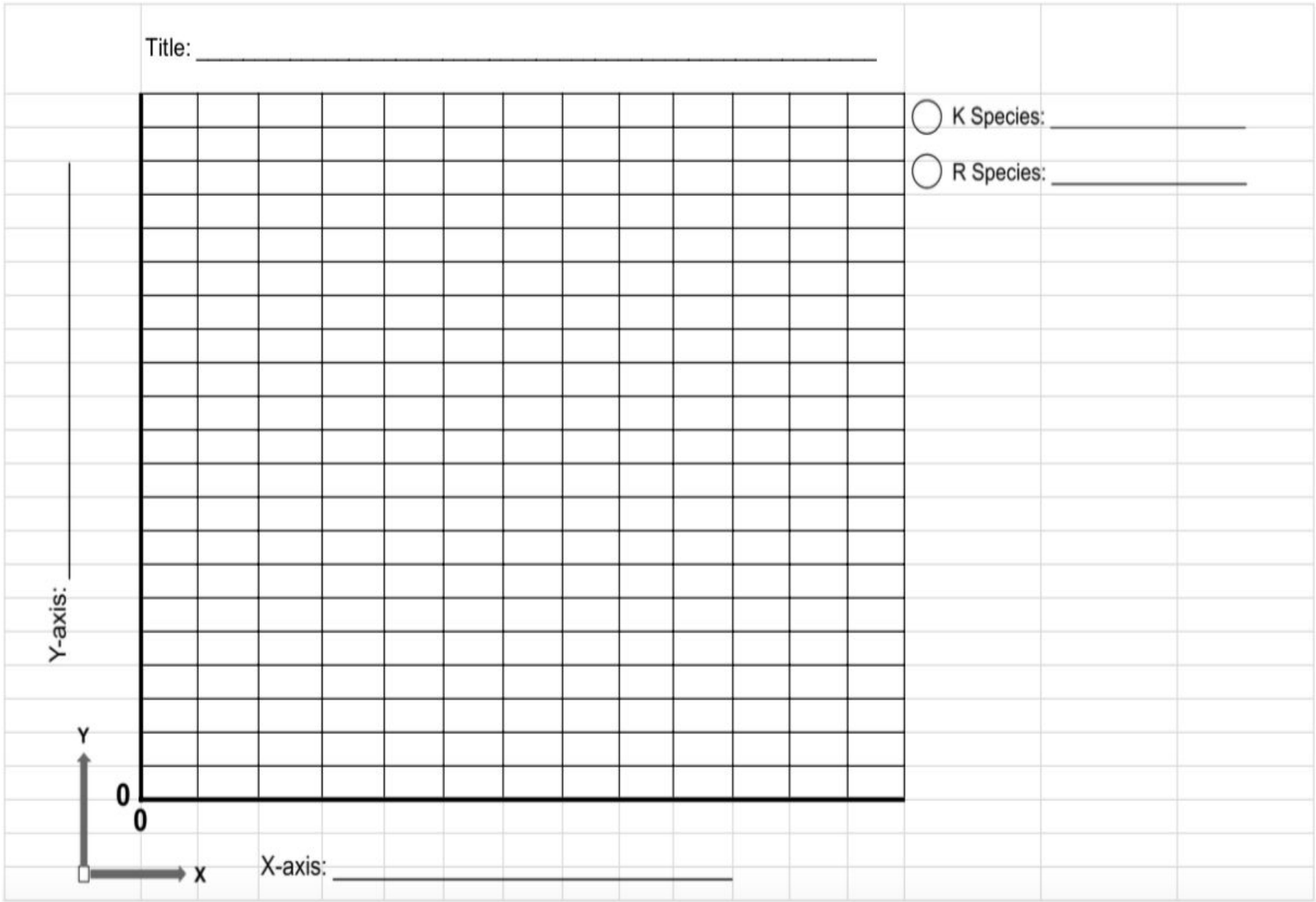
<https://www.tmparksfoundation.org/student-stewards-science-videos>

Use the information from the tables above to make a line graph showing the population changes for your R species and your K species.

1. Fill in the title of your graph. *Hint: titles should include When, What, and Where.*
2. Fill in the title of your X-axis. *Hint: the X-axis should be your independent variable (e.g. time, age).*
3. Fill in the title of your Y-axis. *Hint: the Y-axis should be your dependent variable (this variable changes in response to the independent variable)*
4. Next, you will need to add numbered scales to your X and Y axes. Your Y-axis scale will be based on the largest number of babies during any round, for both your R and K species. Your X-axis scale will be based on the number of rounds you played.
5. Using a colored pencil, mark your data points for your R Species based on the table above. When all your data points have been added, draw a line connecting them using the same colored pencil.
6. Using a different colored pencil, mark your data points for your K Species based on the table above. When all your data points have been added, draw a line connecting them.
7. Be sure to fill in the key at the top right corner of the graph. Write in the name of your R and K species. Color in the circle next to the R and K Species in the key using the corresponding colored pencils you used to graph the data points.
8. Once your graph is completed, analyze it. How do the two lines differ? How are they similar? What does this say about K Species? What does this say about R Species?
9. Think about if a line graph is the best way to show our information. Would a different graph be better? Why or why not?

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Pick three other species you are interested in. For each species, decide if it is a K or R strategist. Provide at least three pieces of information that support your decision.

Species 1 Name:

Type of Strategist:

Supporting Evidence:

Species 2 Name:

Type of Strategist:

Supporting Evidence:

Species 3 Name:

Type of Strategist:

Supporting Evidence:

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