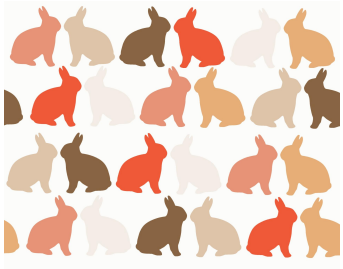
Name: _____

Team BIPS Science 7



Evolution Simulation - RABBITS

Go to

https://phet.colorado.edu/sims/html/natural-selection/latest/natural-selection_en.html

Select Lab

SIMULATION 1:

1) Add a mate for your rabbit.
2) Pick a dominant fur colour of brown.
3) Let 3 generations go by, what do you notice about your population?

4) Add wolves as predators. Let 6 generations go by. How does this affect your population?

5) Using natural selection, explain the trend you have observed.

SIMULATION 2: START A NEW GAME

1) Add a mate for your rabbit.
2) Change the environment to winter by clicking the snowflake.
3) Pick a dominant fur colour of brown.
4) Let 3 generations go by, what do you notice about your population?

5) Add wolves as predators. Let 6 generations go by. How does this affect your population?

6) Using natural selection, explain the trend you have observed.

SIMULATION 3: START A NEW GAME

1) Add a mate for your rabbit.
2) Pick a dominant trait of floppy ears.
3) Let 3 generations go by, what do you notice about your population?

4) Add wolves as predators. Let 6 generations go by. How does this affect your population?

5) Using natural selection, explain the trend you have observed.

SIMULATION 4: START A NEW GAME

1) Add a mate for your rabbit.
2) Pick a dominant trait of long teeth.
3) Let 3 generations go by, what do you notice about your population?

4) Add tough food as predators. Let 6 generations go by. How does this affect your population?

5) Using natural selection, explain the trend you have observed.

SIMULATION 5: START A NEW GAME

1) Add a mate for your rabbit.
2) Pick a dominant trait of long teeth.
3) Let 3 generations go by, what do you notice about your population?

4) Add scarce food. Let 6 generations go by. How does this affect your population?

5) Using natural selection, explain the trend you have observed.

SIMULATION 6: START A NEW GAME

1) Add a mate for your rabbit.
2) Pick all the dominant traits.
3) Let 3 generations go by, what do you notice about your population?

4) Add all the environmental factors. Let 6 generations go by. How does this affect your population?

5) Using natural selection, explain the trend you have observed.