

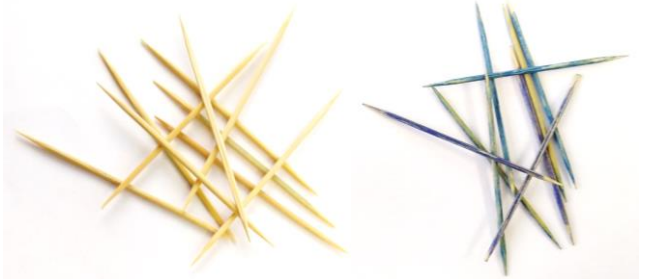


## Describe the process of natural selection.

You are going to model the process of natural selection using cocktail sticks.

You will need

- 20 toothpicks coloured to match the floor/carpet
- 20 toothpicks in natural wood
- Tweezers or chopsticks
- Small bowl



### Method

1. Take your toothpicks and scatter these randomly on the ground.
2. You then have 20 seconds to pick up as many toothpicks as you can using tweezers, placing them in a small bowl.
3. After the 20 seconds count up how many of each cocktail stick you've picked up.
4. Repeat this three times and then total of your results.

**Stretch:**  
Try adding another 20 cocktail sticks of a different colour. Does this impact your results?

**Challenge:**  
How would using your hands to pick up the sticks affect your results?

Trial	Number of natural wood sticks	Number of coloured sticks
1		
2		
3		
Total		

Write a one sentence about what happened in your experiment.

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Describe the process of natural selection.

Answer the questions below about the model.  
Use the word bank to help you

Which type of toothpick was picked up the least?  
Explain why you think this happened.

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Draw a line to match the object to what it represents

Tweezers

Hungry bird

Wooden cocktail sticks

Mutated worms

Coloured cocktail sticks

Normal worms

Prey species that develop a camouflage are more likely to survive.  
Explain what will probably happen to a prey species that is **not**  
camouflaged well.

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Explain why species cannot make themselves better  
adapted to survive at will.

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### Word Bank

random

mutation

survive

reproduce

likely

extinct