# Class Data Sheet

<table>
<thead>
<tr>
<th>Trial</th>
<th>Dry Woodchips</th>
<th>No Woodchips</th>
<th>Wet Woodchips</th>
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<tbody>
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<td>Lab</td>
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Smallest  ➡️  Largest

- **Dry WC**
- **No WC**
- **Wet WC**

Minimum ➡️ Maximum
What variables affect the direction mealworms travel?

**Group 1:**
- Changing Variable: 
- Number of mealworms: 
- Summary: 

**Group 2:**
- Changing Variable: 
- Number of mealworms: 
- Summary: 

**Group 3:**
- Changing Variable: 
- Number of mealworms: 
- Summary: 

**Group 4:**
- Changing Variable: 
- Number of mealworms: 
- Summary: 
Panda

• Why do you think the panda’s living area got smaller?
  – Deforestation
    - Deforestation caused bamboo plants to decrease significantly
      - Significant part of Panda Diet
      - Pandas then had to move to where bamboo grows (couldn’t wait for new bamboo to grow because this can take up to 100 years)
  – Hunted by humans
    - Hunting pandas is now illegal in China

Why do you think the panda’s living area got smaller?
Locust moved because there were abundant resources close by.

- Why do you think the locust were able to expand into new areas?
Some animals only move for part of the year because the environment that they live in becomes temporarily undesirable.

What do you call it when animals move during specific times of the year?

- Migration

What are some animals that migrate?

- Butterflies
- Birds
- Whales

Why do some animals migrate?

- To reproduce
- To find food
- To reproduce

Some animals only move for part of the year because they live in environments that become undesirable.
Camel

Describe the environment that camels live in.
- Hot, barren, little food and water

Animals store fat so that when it is needed, their bodies can burn the fat to produce energy can be a substitute for food and water.

Energy takes many generations to develop/lose adaptations.

Why would fat all over a camel’s body be a problem?
- The camel would get too hot.

What is stored in a camel’s hump?
- Fat

If a camel was born in an area with lots of food and water, would the camel’s hump go away?
- No, it takes many generations to develop/lose adaptations.

What would happen if a camel was born without the ability to form a hump?
- Might get too hot if fat is stored around its body.
- Might not be able to go for long periods without food and water.

Do you think fat is important for camels?
- Yes, it allows them to go for days without eating.

Why do whales have fat (blubber) all over their bodies to stay warm?
- Whales have fat (blubber) all over their bodies.

What adaptation do camels have?
- Hump
Describe the environment that giraffes live in.
- Grass, some tall trees, savannas

What do giraffes eat?
- Grass

What other animals live in the same area as giraffes?
- Grass, some tall trees, savannas

Do you think there is competition for food that giraffes might eat?
- Grass

What do zebras and gazelles eat?
- Grass, from zebras, gazelles, etc.

Why are giraffes better equipped to eat tree leaves?
- The have a long neck and are tall. This is the giraffes adaptation.
- Leaves of trees

Besides grass, what else could giraffes eat?
- Yes, from zebras, gazelles, etc.

What other giraffes eat?
- No, it takes many generations to develop/lose adaptations.

If a giraffe was put in an area with lots of low vegetation, would the giraffe’s neck shrink?
- Yes, from zebras, gazelles, etc.

The have a long neck and are tall. This is the giraffes adaptation.

Why do giraffes need more nutrients to survive?
- Therefore there is a check and balance system. In addition, leaves during a drought grow lower to the ground, which makes competition for the vegetation higher. Therefore, if a drought is harder to get these nutrients, therefore there is a check and balance system. In addition, leaves during a drought grow lower to the ground, which makes competition for the vegetation higher.

What would happen if a giraffe was born with a short neck?
- Might not have enough food to survive.

Do you think there is competition for food that giraffes might eat?
- Grass

What other adaptations do giraffes have?
- Giraffes necks do not continue to get bigger because bigger giraffes would be more difficult to produce. Therefore, there is a balance system. In addition, leaves during a drought grow lower to the ground, which makes competition for the vegetation higher.

What would happen if a giraffe was born with a short neck?
- Might not have enough food to survive.
Die 1

Saber-Toothed Cat (extinct 7.2 million years ago)

- What adaptation did saber-toothed cats have to live in their environment?
  - Large teeth to catch prey
- What did saber-toothed cats eat?
  - Large prey
- Do you think that saber-toothed cats were able to catch smaller prey such as a mouse?
  - No, it would be hard because their two large teeth would get in the way.
- After all of the large prey died off, saber-toothed cats were not able to catch smaller prey such as a mouse. This led to their extinction.
Little Swan Island Hutia (extinct in 1955)

- Lived on a small island in Honduras
- Hurricane came and devastated the island. In addition, house cats were introduced, which played a role in the extinction.
- This rodent could not adapt quickly enough and thus died off and became extinct.
- How long does it take for a species to make adaptations?
- It takes a long time! Over several generations.

Die 2