



Class Data Sheet

| Trial | Dry Woodchips | No Woodchips | Wet Woodchips |
|-------|---------------|--------------|---------------|
| Lab | 11 | 5 | 4 |
| 1 | | | |
| 2 | | | |
| 3 | | | |
| 4 | | | |

Wet WC

| | | | | |
|---------|--|--|--|---------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| Minimum | | | | Maximum |

Wet WC

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

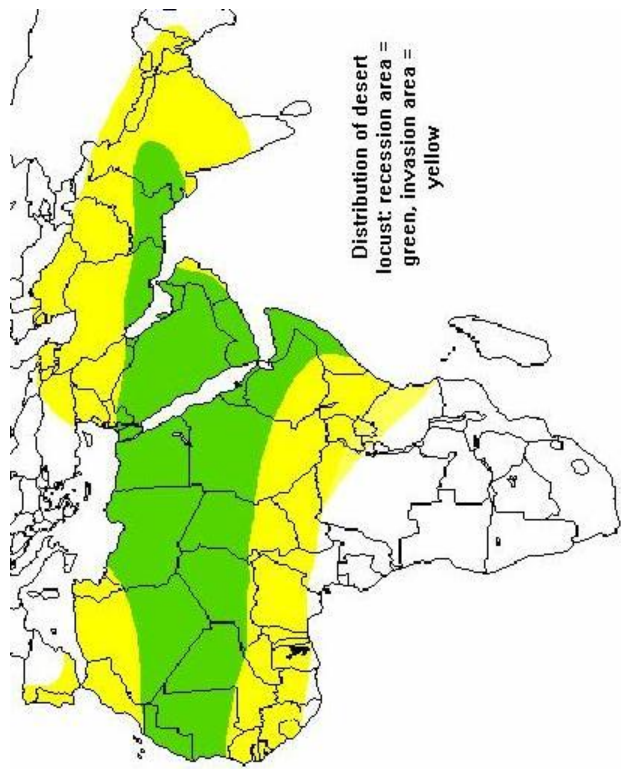
- Why do you think the panda's living area got smaller?
 - Deforestation
 - Deforestation caused bamboo plants to decrease significantly- Significant part of Panda Diet
 - Pandas then had to move to where Bamboo grows (couldn't wait for new Bamboo to grow because this can take up to 100 years)
 - Hunted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



Move 2

Locust

- Why do you think the locust were able to expand into new areas?
 - Locust moved because there were abundant resources close by.



Move 3

Whales, Birds, and Butterflies

- 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?
 - Birds
 - Whales
 - Butterflies
- Why do some animals migrate?
 - To reproduce
 - For a food source



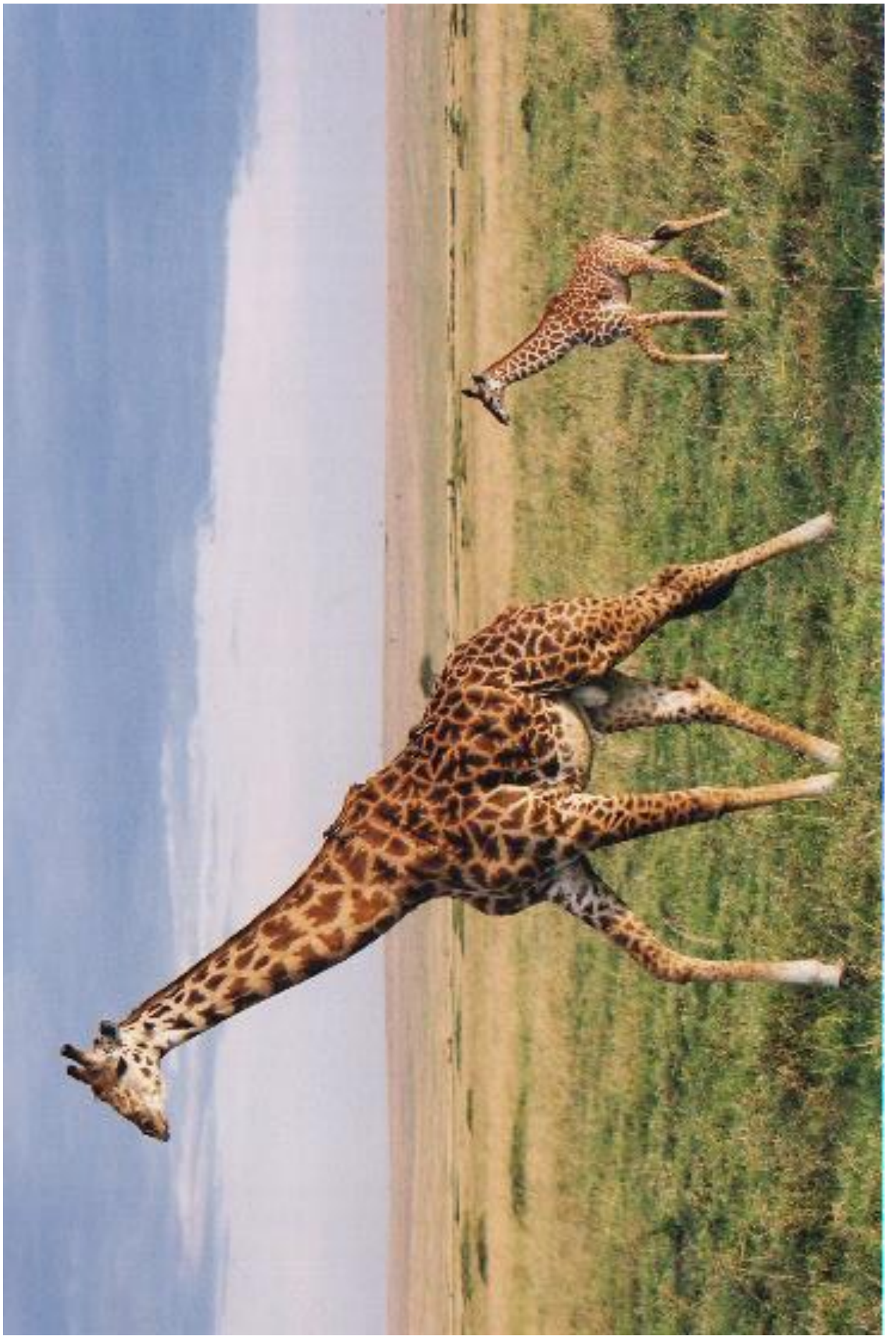
Camel

Adapt 1

- 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
- Energy can be a substitute for 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?
 - Whales have fat (blubber) all over their bodies to stay warm.
- Why would fat all over a camel's body be a problem?
 - The camel would get too hot.
- What adaptation do camels have?
 - Hump
- What is stored in a camel's hump?
 - Fat
- 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
- If a camel was born in an area with lots of food and water, would the camels hump go away?
 - No, it takes many generations to develop/loose adaptations.



- 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?
 - Zebras, lions, gazelles, etc.
- What do zebras and gazelles eat?
 - Grass
- Do you think there is competition for food that giraffes might eat?
 - Yes, from zebras, gazelles, etc.
- Besides grass, what else could giraffes eat?
 - Leaves off of trees
- Why are giraffes better equipped to eat tree leaves?
 - They have a long neck and are tall. This is the giraffes adaptation.
- If a giraffe was put in an area with lots of low vegetation, would the giraffes neck shrink?
 - No, it takes many generations to develop/lose adaptations.
- Giraffes necks do not continue to get bigger because Giraffe's with longer necks need more nutrients to survive and during a drought it 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 long neck giraffes with other giraffes.
- What would happen if a giraffe was born with a short neck?
 - Might not have enough food to survive.



Saber-Toothed Cat (extinct 7.2 million years ago)

- What adaptation did saber-tooth 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 mice) and did not have enough to eat. 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 to the island, 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.
- Is it beneficial for a species to be in larger or smaller area?
 - It is more beneficial for a species to be spread out over a large area.



SWAN ISLAND HUTIA

Geocapromys thoracatus

LITTLE SWAN ISLAND