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# Adaptations

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# Find What's Needed!

What are different elements of the following habitats? What are some of the benefits and challenges of each? What type of animal do you think lives there?















# Let's Clap

1. Every time somebody class, respond with 2 claps.

You are going to be given a post-it note. Throughout today's activities you have the opportunity to be the leader and clap once. Once you have lead the clap, your post-it note will be taken away and you are no longer to lead a clap, so use it wisely!



# Behavioral and Physical Adaptations

## Behavioral

The way an animal responds to life needs.

## Physical

The way an animal physically changes itself to help them survive.



**What are some examples of behavioral and physical adaptations that you can think of?**

## Behavioral

Instinct

Learned Behavior

## Physical

Camouflage

Mimicry

# Camouflage



# Camouflage

What is camouflage?

- Camouflage is an adaptation in which an animal's color or appearance makes them difficult to see in certain environments

What are some interesting animals with camouflage?

- Moth
- Snowshoe Hare
- Leaf Insects
- Octopus

# Can you spot the hidden animal?

Brainstorm! What kind of animal is this and how does it use camouflage to blend in?

[https://www.nationalgeographic.com/photography/proof/2017/08/camouflage-animals-concealment/#/01-camouflaged-animals-1556947\\_uploads/member25523/yourshot-25523-1556947.jpg\\_67m4i5ts7ciah4emivyjuicxr4zxs2udwatjavjxftgooy4jfa\\_2000x1500.jpg](https://www.nationalgeographic.com/photography/proof/2017/08/camouflage-animals-concealment/#/01-camouflaged-animals-1556947_uploads/member25523/yourshot-25523-1556947.jpg_67m4i5ts7ciah4emivyjuicxr4zxs2udwatjavjxftgooy4jfa_2000x1500.jpg)







# Activity!

## Fun with Frogs

# Mimicry

## What is Mimicry?

Mimicry is the action or art of an animal imitating another animal or plant.

## What is it used for?

It is used as a defense mechanism from other predators.



# What animals mimic others as a form of defense?

Ladybird Beetle



Dead Leaf Mantis



# Activity!

## Mimic Me!

# This is a Monarch Butterfly!

Do your best to mimic this  
butterfly using the paper and  
markers provided.



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**Is this a Monarch butterfly?**



## No! It's a Viceroy

- They mimic the Monarch butterfly.
- Monarchs have an acid in their bodies, which makes them bitter, and upsets predators' stomachs.



**Brainstorm:** How is this useful?

# Can you spot the difference?

Viceroy



Monarch





# Monarch

*Danaus plexippus*



# Viceroy

*Limenitis archippus*



# Instincts

What would you do?



# What is an instinct?

- **Instinct**
  - Natural behavior needed to survive
- **Behavioral adaptation**
  - Respond to life needs
- **Examples**
  - Spider spinning a web
  - Beaver building a dam





**QUIZ  
TIME!**

# Learned Behavior

# What is a learned behavior?

- Behavior that develops from observation or instruction is called a learned behavior.

# Guess the learned behaviors

- Baby ducks follow mother to pond.
- The turkey has brown feathers.





- The horse sleeps standing up.
- Cubs hunt, pick berries and fish.



- Spiders spin a web to catch food.

- Prairie dogs dive into the safety of their burrow when danger is near.



- The pigs come to the trough when the farmer has the slop bucket.
- Squirrels search for and hide nuts.



- The dog barks at the door to go outside.
- Birds migrate from places where they breed and raise their young, to other habitats where they spend the winter.



# Extra Activity!

## Mimic This!

Everybody has 4 minutes to draw their favorite animal, habitat, or food. When this time is up, you will pass your drawing onto the person next to you and they will have 4 minutes to mimic your drawing and guess what it is!