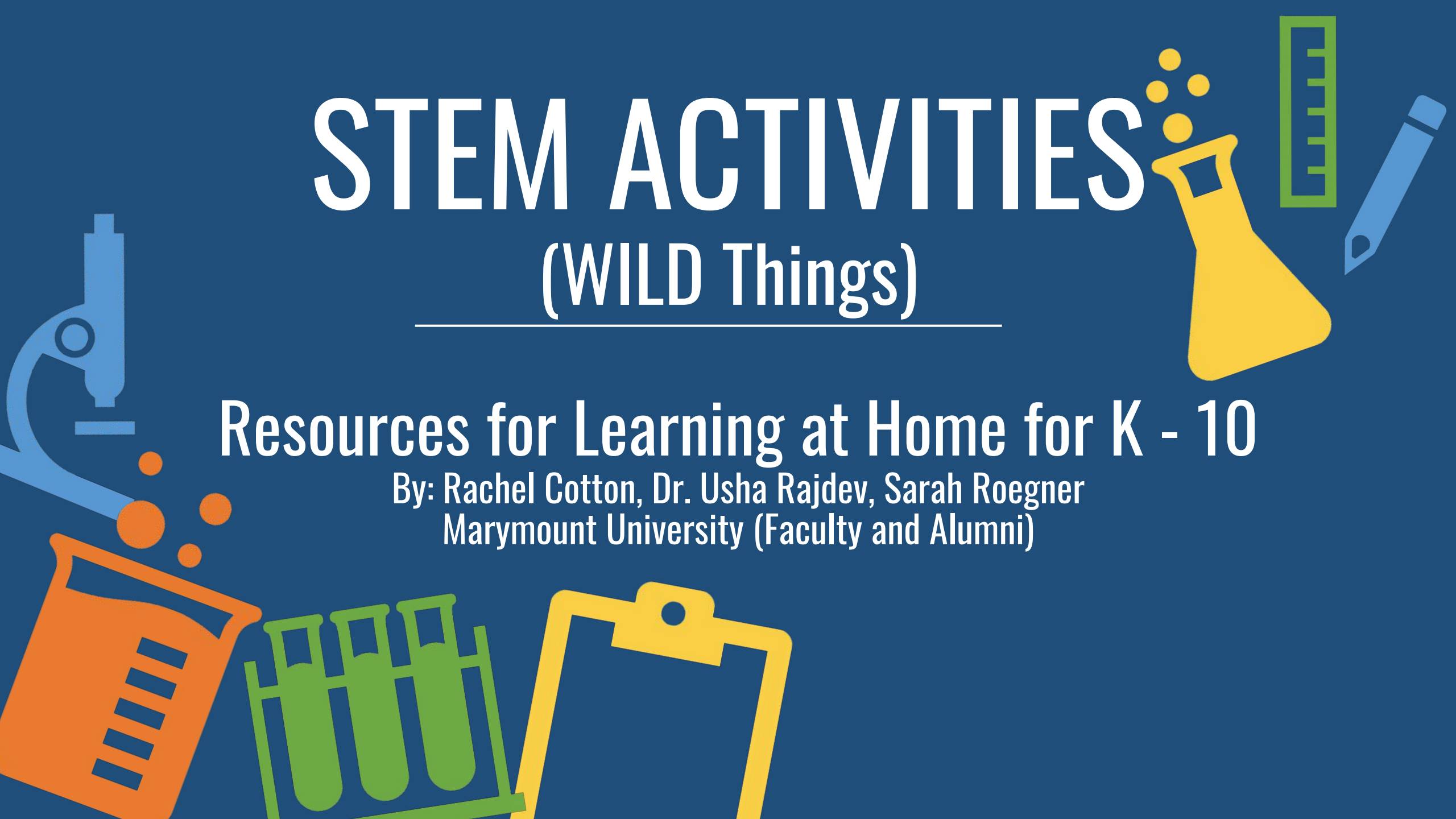


STEM ACTIVITIES

(WILD Things)

Resources for Learning at Home for K - 10

By: Rachel Cotton, Dr. Usha Rajdev, Sarah Roegner
Marymount University (Faculty and Alumni)



Remember... Safety First!

Before attempting any experiments or hands on activities, make sure you have parent permission and are following all safety instructions! Remember science is not fun if you get hurt because you are not being safe!



Parents

Dear Parents and/or Family members:

In an effort to continue teaching and learning under the current COVID19 circumstances, we recognize the needs for parents, families, and students to conduct a variation of activities to enhance and motivate students learning from the homefront. **Please note some will require adult supervision. We leave this to your discretion.** Do try other grade levels for challenges.

This particular packet focuses on all types of wild life relevant to the grade level. Students can take a hands-on approach as well as a virtual field trip to explore an animal and its habitat.

Stay tuned for more activities and projects to follow.



RESOURCES BY GRADE

Click on the box with your child's grade to go to resources for that grade level.

K

1-2

3-4

5-6

7-8

9-10



Kindergarten

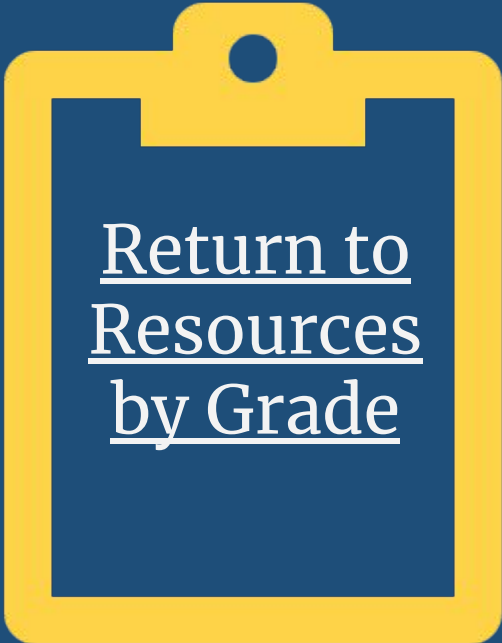
Websites

- Explore the [San Diego Zoo](#) on this virtual field trip. Or try out the webcams at the [Smithsonian's National Zoo](#).
- Become an “[Ant Detective](#)” in your own community. Use the [Flying WILD](#) website to help.
- Try out [Zoo Yoga](#) with a step-by-step guide. Your whole family will enjoy themselves.

Activity

Learn about different animals and what they need to survive in their habitat.

- Watch this [video](#) to learn about a couple animals and their habitats.
- For an animal to survive, its habitat needs food, water, shelter, air, and space.
- Draw your own animal and create its habitat.



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Resources
by Grade](#)

First-Second

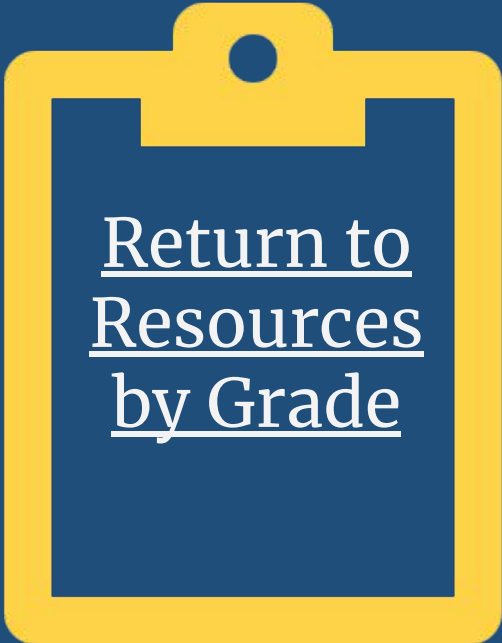
Websites

- Learn a little about polar bears in the tundra using [Discovery Education](#).
- Work through the [lesson](#) on living and nonliving objects.
- [Match the Habitats](#) using the program Flying WILD.
- Tune into a live web cam at [Monterey Bay Aquarium](#).
- Create your own [pollinator](#) using materials at home.

Activity

Explore the life cycle of a butterfly. Learn about the different stages of the cycle.

- Watch this [video](#) about the butterfly life cycle.
- Now that we know about the butterfly life cycle, look through the [pictures](#) and read with a parent.
- Play the [game](#) to test your knowledge.



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Third-Fourth

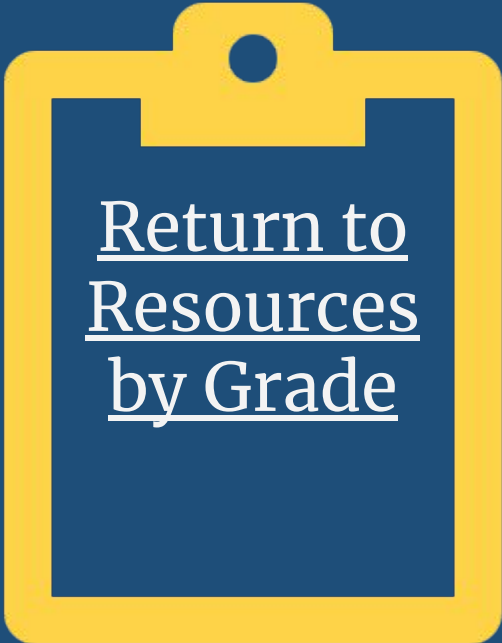
Websites

- Learn all about different animals using [National Geographic Kids](#) website.
- This [video](#) about birds gives you information about what different types of birds have in common.
- Explore this [Bird adaptation list](#).
- The [Bird Identifier](#) can help you figure out what birds you see at your feeder.
- This page from the Canadian Museum of Nature has [games all about birds](#)

Activity

There are many different types of birds around the world. Focus on what is in your community.

- Construct a [bird feeder](#) and make observations about the birds that visit.
- How many birds came to your feeder?
- What types of birds did you observe?
- Create a chart or table to record the data that you gather and draw the bird that had the greatest number of sightings.



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Fifth-Sixth

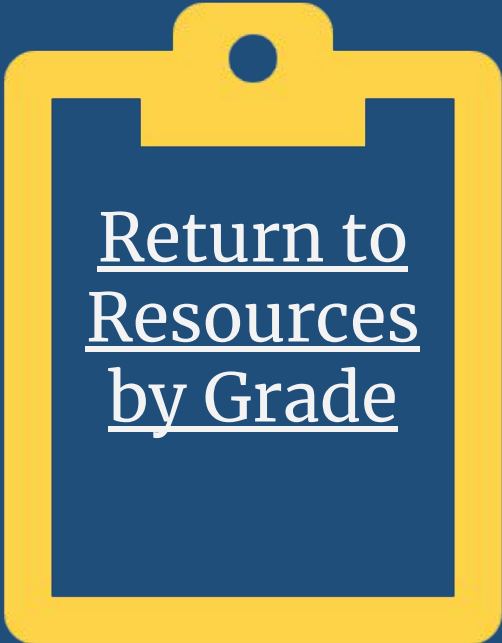
Websites

- Learn all about different animals using the [National Geographic Kids](#) website.
- [Outdoor Adventures](#) that you can take with your family, make sure to practice social distancing!
- Try this [Animal Classification Game](#) as well as [The Adaptation Game](#)

Activity

Pick an animal you would like to research.

- Watch this video about [adaptations](#).
- Use [National Geographic kids](#) to research your animal.
- Construct a 3D model of your animal using materials around your home. Make sure to include the animals' adaptation in your model
- Share your favorite facts about this animal and their adaptation with a family member



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Seventh-Eighth

Activity

Research the facts and statistics about the brown bear.

- View this [website](#) and research on the brown bear.
- Watch this live [webcam](#).
- Use [Bearwalker of the Northwoods](#) from Flying WILD.

Answer the following questions:

- Why are Grizzly bears called grizzly?
- What does a Grizzly bear eat and how much?
- Why do they need to hibernate?
- What are the five stages in hibernation?

Engineer a den for a bear using: paper, pencil, marshmallows, toothpicks, recyclables, scissors, ruler.



engineering dens for winter animals

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Ninth-Tenth

Activity

Predator - eats the other; **Prey** - hunted and killed by another for food.

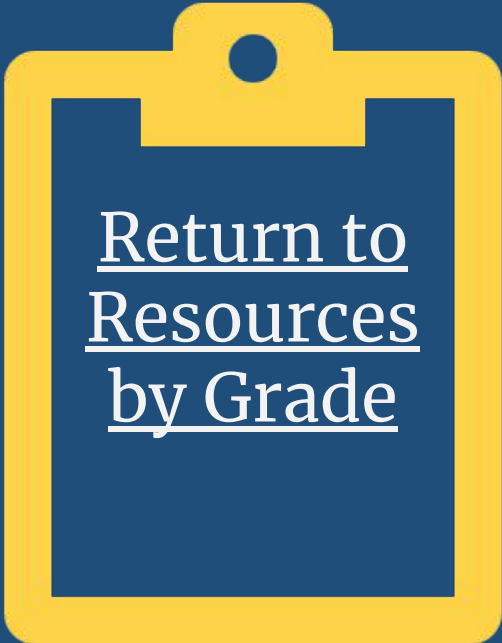
Learn about the peregrine falcon, which is at the top of its food web, using the following links:

- [Peregrine Falcon Background Reading](#)
- [Modeling the Effects of an Invasive Species](#)
- [Modeling the Loss of a Prey Animal](#)
- [Disturbing Nature's Balance](#)
 - Research if the coronavirus will have an effect on the food chain.

Document your observations from this live [webcam](#) site

- Answer the question: What type of habitat does the peregrine falcon need?

Design a habitat using household recyclables.



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