

# ADAPTATION AND SURVIVAL

## INVESTIGATIONS IN SCIENCE 6

### Science Anchors

Science anchors are ongoing engaging tasks that students can work on independently. They are curriculum based, clearly defined and differentiated for students. Students can work on science anchors as they complete work at varying rates, when the teacher is working with a small groups of students, at the beginning or end of a class period, or when they are waiting for teacher assistance. Sample science anchor tasks include: reading and responding to text, journaling, learning or interest centers, listening or viewing centers, independent research or projects and hands-on minds-on science kit tasks. Provide a variety of anchor tasks at your anchor station to address the diverse learning styles, interests, and readiness levels of your students.

#### Purpose

Students select and complete an anchor task to deepen their understanding of adaptation and survival.

Task 1	Task 2	Task 3
<p>Design an animal that is best suited to its environment.</p> <p>Access to Best Suited Animal task at link below:</p> <p><a href="http://coolschool.ca/TC2/TC2_projects/projects/TC2_09.htm">http://coolschool.ca/TC2/TC2_projects/projects/TC2_09.htm</a></p>	<p>Develop a timeline that reflects the lifespan of an extinct native species.</p>	<p>Explain how a native species survives throughout the year.</p>

## INVESTIGATIONS IN SCIENCE 6

### Best Suited Animal

#### Anchor Task 1

#### Overview

This anchor task is to be used by students as they are learning about adaptation and survival.

#### Goals

##### *Students should know*

some organisms have a better chance of surviving than others.

##### *Students should understand*

best-suited organisms and groups of organisms survive.

some organisms survive and reproduce and others die or migrate to other locations when the environment changes.

##### *Students should be able to*

design the best suited animal for an environment.

#### Required Resources

- Access to Best Suited Animal task at link below:

[http://coolschool.ca/TC2/TC2\\_projects/projects/TC2\\_09.htm](http://coolschool.ca/TC2/TC2_projects/projects/TC2_09.htm)

## INVESTIGATIONS IN SCIENCE 6

### Extinct Native Species Timeline

#### Anchor Task 2

#### Overview

This anchor task is to be used by students as they are learning about populations, adaptation and survival.

#### Goals

##### *Students should know*

changes in the environment can be harmful or helpful.

some organisms have a better chance of surviving than others.

##### *Students should understand*

some organisms survive and reproduce and others die or migrate to other locations when the environment changes.

extinction occurs when adaptive traits of a population do not support its survival.

##### *Students should be able to*

develop a timeline that reflects the life span of an extinct native species.

#### Required Resources

- One Extinct Species Timeline resource per student
- Colored pencils or markers
- Blank paper
- Lined paper
- Optional– Computers for students to develop electronic timelines

## INVESTIGATIONS IN SCIENCE 6

### Extinct Naïve Species Timeline

#### Anchor Task 2

#### Directions

Select an extinct native species to research. \_\_\_\_\_

Get teacher approval.

Teacher Signature: \_\_\_\_\_

Document the entire life span of the native species on the next page.

Use poster paper or software to create a timeline that reflects the life span of the native species you researched. Be sure to include descriptions of the major influences that impacted the stability of the species.



The Carolina parakeet native to Maryland became extinct in the 1920's.

Image source [http://www.lib.fit.edu/pubs/librarydisplays/Carolina\\_parakeet.jpg](http://www.lib.fit.edu/pubs/librarydisplays/Carolina_parakeet.jpg)

**INVESTIGATIONS IN SCIENCE 6**

The Life of \_\_\_\_\_ From Beginning to End

## INVESTIGATIONS IN SCIENCE 6

### Maryland Native Species Research

#### Anchor Task 3

#### Overview

This anchor task is to be used by students as they are learning about survival.

#### Goals

##### *Students should know*

some organisms have a better chance of surviving than others.

##### *Students should understand*

best-suited organisms and groups of organisms survive.

some organisms survive and reproduce and others die or migrate to other locations when the environment changes.

##### *Students should be able to*

explain how a native Maryland species survives throughout the year.

#### Resources:

- One Maryland Native Species resource per student
- Various print and electronic resources
- Access to The Maryland Department of Natural Resources website at the link below:

<http://www.dnr.state.md.us/wildlife/wildacres.asp>

