

# Sample student packet: Animal adaptations infographic

## Lesson objectives:

- Learn about different types of adaptations in animals
- Understand how adaptations help an organism survive
- Learn how animals have evolved over time to better fit their environment
- Use technology to research, create, and communicate ideas about adaptations

## To-do list and important due dates

- Infographic/adaptation probe (10/28)
- Infographic worksheet (10/28)
- Plan proposal (10/29)
- Introduction to adaptations (11/1)
- Research worksheet (11/5)
- Rough draft of infographic (11/8)
- Peer and group evaluation of infographic on rubric (11/13)
- Sign up for presentation group (11/13)
- Final infographic (11/14)
- Present infographics (11/15)
- 3-2-1 presentation note taker (11/15)
- Vote for best infographic (11/15)
- Adaptations worksheet (11/15)
- Adaptation quiz (11/16)

## Infographic Worksheet (due: 10/28)

**Directions:** Look through some of the example infographics provided by the teacher and answer the questions below.

1. List seven things you learned from the example infographics.
  - a.
  - b.
  - c.
  - d.
  - e.
  - f.
2. What are five similarities between all the Infographics we have looked at?
  - a.
  - b.
  - c.
  - d.
  - e.
3. What percent of information that comes to the brain is visual? How does this affect how successful infographics are?
4. What are four visual symbols that are frequently used in infographics?
  - a.
  - b.
  - c.
  - d.
5. What are the three things found in every infographic?
  - a.
  - b.
  - c.
6. Many people believe anything they see or read in infographics. Why is this and how do you make sure that you are getting quality information?

**Teacher's initial/stamp, needed when complete:** \_\_\_\_\_

**Comments:**

## Plan Proposal (due: 10/29)

I, \_\_\_\_\_, plan on completing the requirements for the Adaptations Infographic poster with the following group members:

- a.
- b.
- c.

The focus of our project will be \_\_\_\_\_ and no matter the lack of food, sleep, or sanity, our project will be completed for grading and peer review on November 14th.

Student signature: \_\_\_\_\_ Date: \_\_\_\_\_

Parent signature: \_\_\_\_\_ Date: \_\_\_\_\_

## Introduction to adaptations (due: 11/1)

**Directions:** Go to the class website and use the Adaptations PowerPoint to answer these questions.

1. Definition of an adaptation:
2. List three types of adaptations in animals:
3. Why are adaptations important?

Teacher's initial/stamp, needed when complete: \_\_\_\_\_

Comments:

## FAQ about researching

- **Do I have to give credit to the author or creator of a book, article, or website in my project?**

Yes, just like always you need to give credit where credit is due. Also, in science, where the information comes from is often just as important as the actual information. For this project, you need to have a minimum of four different sources of information and citations for each of these.

- **How do I create a citation to give credit to the author or creator of a book, article, or website in my project?**

You can use an online reference generator. Type the information into the website and it creates the citation for you. You then need to copy and paste this citation into the research table to be used for your final project.

- **Do my sources have to be books?**

Absolutely not! There are many great websites with information about animals on the web. Also, don't limit yourself to websites or books; video clips, PowerPoint, or movies can also be great sources of information.

- **How many sources should I have?**

You need to have a minimum of four different sources for this project, but more sources often mean better information.

- **How do I know if the website is a good source of information?**

Wikipedia is not a good final source of information because anyone can change that website; however, Wikipedia can be a good place to learn basic information to research in more depth other places.

- **I can't find anything in the research databases; what do I do?**

Your teacher is always willing to help; just ask for direction.

## Research worksheet (due: 11/6)

Directions: Find four sources (different from your group members' sources), correctly cite the reference, and take notes here from the sources about your animal.

Citation/source	Notes

Teacher's initial/stamp, needed when complete: \_\_\_\_\_

Comments:

# What do I need to include on my infographic?

## How will my infographic be graded?

### Content

- Classification of the animal
- At least eight facts about the organism
- Map or other information about climate/place the animal lives
- Identify at least five adaptations specific to the animal
- Then connect/explain how the adaptation helps the animal to survive
- Then connect habitat to how adaptations benefit the animal
- Include a citation page with at least four sources

#### LEVEL 4 MUST ALSO:

- Discuss or point to current endangerment issues and how the animal's adaptations are helping it survive this danger OR
- accurately show how the species has changed or evolved over time

### Design

- At least four or more images
- Color is thematic
- Arrows, lines, or bubbles connect ideas
- Well-organized
- Creative

#### LEVEL 4 MUST ALSO:

- Tell the story of this animal in an interesting way that the general public will understand
- Design contributes to the understanding of the animal's adaptations

## **Rough draft/poster sketch (due: 11/8)**

Directions: Draw a rough draft of your poster.



Teacher's initial/stamp, needed when complete: \_\_\_\_\_

Comments:

## Peer evaluation (due: 11/15)

Directions: Ask another group to look at and read the rough draft of your infographic. This group needs to provide honest, quality feedback by completing this page.

The infographic includes...

Score	Content	Design
<b>4</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> At least eight facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> Then connects/explains how the adaptation helps the animal to survive</li> <li><input type="checkbox"/> Then connects habitat to how adaptations benefit the animal</li> <li><input type="checkbox"/> Includes a citation page with at least four sources</li> <li><input type="checkbox"/> Discusses or points to current endangerment issues and how the animal's adaptations are helping it survive this danger</li> <li><input type="checkbox"/> OR accurately shows how the species has changed or evolved over time</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least four or more images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles connect ideas</li> <li><input type="checkbox"/> Well-organized</li> <li><input type="checkbox"/> Creative</li> <li><input type="checkbox"/> Tells the story of this animal in an interesting way that the general public will understand</li> <li><input type="checkbox"/> Design contributes to the understanding of that animal's adaptations</li> </ul>
<b>3</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> At least eight facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> Then connects/explains how the adaptation helps the animal to survive</li> <li><input type="checkbox"/> Then connects habitat to how adaptations benefit the animal</li> <li><input type="checkbox"/> Includes a citation page with at least four sources</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least three images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles connect ideas</li> <li><input type="checkbox"/> Well-organized</li> <li><input type="checkbox"/> Creative</li> </ul>
<b>2</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> Provides five to seven facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> But does not correctly connect them to how the animal survives</li> <li><input type="checkbox"/> Includes a citation page with at least three sources</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least two images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles are present but do not correctly link ideas or concepts</li> <li><input type="checkbox"/> Purpose of infographic is unclear</li> </ul>
<b>1</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Provides five to seven facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> No connection to how adaptations help the animal survive</li> <li><input type="checkbox"/> No citation page included</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least one image</li> <li><input type="checkbox"/> Little to no color</li> <li><input type="checkbox"/> No purpose of infographic</li> </ul>

**Strengths of the infographic:**

**Suggestions for making it better:**

## Group evaluation (due: 11/15)

Directions: As an entire group, you need to evaluate your infographic. This is a time for you to be honest and critical of your work. This evaluation in combination with the peer evaluation should be taken seriously and used to improve your final product.

The infographic includes...

Score	Content	Design
<b>4</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> At least eight facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> Then connects/explains how the adaptation helps the animal to survive</li> <li><input type="checkbox"/> Then connects habitat to how adaptations benefit the animal</li> <li><input type="checkbox"/> Includes a citation page with at least four sources</li> <li><input type="checkbox"/> Discusses or points to current endangerment issues and how the animal's adaptations are helping it survive this danger</li> <li><input type="checkbox"/> OR accurately shows how the species has changed or evolved over time</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least four or more images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles connect ideas</li> <li><input type="checkbox"/> Well-organized</li> <li><input type="checkbox"/> Creative</li> <li><input type="checkbox"/> Tells the story of this animal in an interesting way that the general public will understand</li> <li><input type="checkbox"/> Design contributes to the understanding of that animal's adaptations</li> </ul>
<b>3</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> At least eight facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> Then connects/explains how the adaptation helps the animal to survive</li> <li><input type="checkbox"/> Then connects habitat to how adaptations benefit the animal</li> <li><input type="checkbox"/> Includes a citation page with at least four sources</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least three images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles connect ideas</li> <li><input type="checkbox"/> Well-organized</li> <li><input type="checkbox"/> Creative</li> </ul>
<b>2</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> Provides five to seven facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> But does not correctly connect them to how the animal survives</li> <li><input type="checkbox"/> Includes a citation page with at least three sources</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least two images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles are present but do not correctly link ideas or concepts</li> <li><input type="checkbox"/> Purpose of infographic is unclear</li> </ul>
<b>1</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Provides five to seven facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> No connection to how adaptations help the animal survive</li> <li><input type="checkbox"/> No citation page included</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least one image</li> <li><input type="checkbox"/> Little to no color</li> <li><input type="checkbox"/> No purpose of infographic</li> </ul>

**What is missing?**

**What are you going to improve? Why?**

### 3-2-1 presentation note taker (due: 11/15)

Directions: As you watch your peers present, select three presentations to complete a notes chart about. Your chart should include:

**3** adaptations and how that adaptation helps the organism survive

**2** sentences commenting on the design of the infographic

**1** question you have based on the presentation.

Title of infographic:	
<b>3</b>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>2</b>	
<b>1</b>	

Title of Infographic:	
<b>3</b>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>2</b>	
<b>1</b>	

--	--

<b>Title of Infographic:</b>	
<b>3</b>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
<b>2</b>	
<b>1</b>	

Teacher's initial/stamp, needed when complete: \_\_\_\_\_

Comments:

## Animal infographic rubric

Group members: \_\_\_\_\_

Final score: \_\_\_\_\_

The infographic includes...

Score	Content	Design
<b>4</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> At least eight facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> Then connects/explains how the adaptation helps the animal to survive</li> <li><input type="checkbox"/> Then connects habitat to how adaptations benefit the animal</li> <li><input type="checkbox"/> Includes a citation page with at least four sources</li> <li><input type="checkbox"/> Discusses or points to current endangerment issues and how the animal's adaptations are helping it survive this danger</li> <li><input type="checkbox"/> OR accurately shows how the species has changed or evolved over time</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least four or more images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles connect ideas</li> <li><input type="checkbox"/> Well-organized</li> <li><input type="checkbox"/> Creative</li> <li><input type="checkbox"/> Tells the story of this animal in an interesting way that the general public will understand</li> <li><input type="checkbox"/> Design contributes to the understanding of that animal's adaptations</li> </ul>
<b>3</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> At least eight facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> Then connects/explains how the adaptation helps the animal to survive</li> <li><input type="checkbox"/> Then connects habitat to how adaptations benefit the animal</li> <li><input type="checkbox"/> Includes a citation page with at least four sources</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least three images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles connect ideas</li> <li><input type="checkbox"/> Well-organized</li> <li><input type="checkbox"/> Creative</li> </ul>
<b>2</b>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Classification of the animal</li> <li><input type="checkbox"/> Provides five to seven facts about the organism</li> <li><input type="checkbox"/> Map or other information about climate/place the animal lives</li> <li><input type="checkbox"/> Identifies at least five adaptations specific to the animal</li> <li><input type="checkbox"/> But does not correctly connect them to how the animal survives</li> <li><input type="checkbox"/> Includes a citation page with at least three sources</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> At least two images</li> <li><input type="checkbox"/> Color is thematic</li> <li><input type="checkbox"/> Arrows, lines, or bubbles are present but do not correctly link ideas or concepts</li> <li><input type="checkbox"/> Purpose of infographic is unclear</li> </ul>

Comments: