

Climate Region Research Project

Goal: Students will research a climate region in the world and present information to their class.

Timeframe: This project will require multiple instructional periods/lessons and provides interdisciplinary connections in reading, writing, and speaking and listening. It can be incorporated in both your literacy and science instruction.

Arkansas K-12 Science Standards:

3-ESS2-1 Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season. *Clarification Statement:* Examples of data could include average temperature, precipitation, and wind direction. *Assessment Boundary:* Assessment of graphical displays is limited to pictographs and bar graphs. *Assessment does not include climate change.*

3-ESS2-2 Obtain and combine information to describe climates in different regions of the world.

Arkansas Academic Standards – English Language Arts:

RI.3.5 Use text features and search tools (e.g., key words, sidebars, hyperlinks) to locate information relevant to a given topic efficiently.

W.3.7 Conduct short research projects that build knowledge about a topic.

W.3.8 Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories.

SL. 3.4 Report on a topic or text, tell a story, or *recount* an experience with appropriate facts and relevant, descriptive details, speaking clearly at an understandable pace.

Students will work together in groups to research a climate region. There are 5 climate regions that are divided into many subcategories (see http://koeppen-geiger.vu-wien.ac.at/pdf/kottek_et_al_2006_A4.pdf for further details).

For this project, focus on these five climate regions:

- ❖ Polar Climate (also called Polar and Alpine)
- ❖ Cool Climate (also called Continental)
- ❖ Mild Climate (also called Temperate)
- ❖ Dry Climate (also called Arid)
- ❖ Tropical Climate

Students will use information from articles, graphs, and internet resources to research a specific climate region. Students will complete the Climate Research Graphic Organizer.

As an additional activity, students could look up the current weather for the city listed below in the climate region they are researching. They could graph this data for 3-5 days and compare it to the classroom data collected about the local weather.

Polar Climate - Barrow, AK USA
Mild Climate - Madrid, Spain
Tropical Climate - Manaus, Brazil

Cool Climate - Bratsk, Russia
Dry Climate - Cairo, Egypt

Once students have conducted their research about their climate region, they will develop a presentation or project to share information with the class.

Examples could be:

- ❑ Google Slides Presentation
- ❑ Digital Story/Presentation – Paper Slides video, animoto, etc.
- ❑ Digital Poster – DE Techbook Board Builder/Glogster/Padlet, etc.
- ❑ Travel Brochure
- ❑ Collaborative Posters

Climate Regions Presentations:

Each group will present their project to the class. The format of presentation will depend on the type of the project student completed (e.g. Gallery Walk / Observation Charts / Whole Group Presentation).

Some student friendly sources for research on climates (there are many others you can find):

[Discovery Education: Climate Regions – search](#)

[Easy Science for Kids: Climate](#)

[Climate Kids: NASA](#)

[NASA Interactive: Climate Zones](#)

[Climate Types for Kids](#)

[Weather for Kids: Climate](#)

[Geography for Kids: Climate](#)