



Natural Disasters

Lesson Title: **Flooding in the Colorado Springs Region**
Grade Level(s): **Fourth and Fifth Grade**
Duration: **2 – 40 Minute Lessons**
Description: **Classroom Lesson using Museum Interface**
Theme(s): **Causes of Flash Floods**

CSAS Standards: **Fourth Grade: Geography 1.** Use several types of geographic tools to answer questions about the geography of Colorado.
2. Connections within and across human and physical systems are developed.

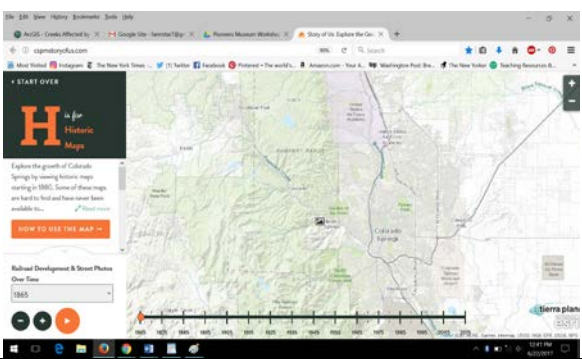
Fifth Grade: Geography 1. Use various geographic tools and sources to answer questions about the geography of the United States.

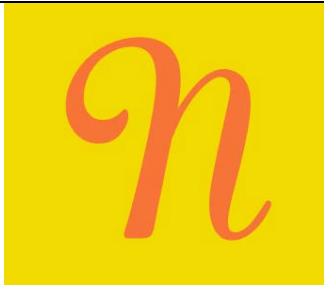
National Standards: **National Geography Standards: 1.** How to use maps and other geographic representations, geospatial technologies, and spatial thinking to understand and communicate information. **4.** The physical and human characteristics of places. **14.** How human actions modify the physical environment. **15.** How physical systems affect human systems. **17.** How to apply geography to interpret the past. **18.** How to apply geography to interpret the present and plan for the future.

Historical Connections: Studying flood patterns in the Colorado region through time

Title / Content Area:	Flooding and Causes in the Colorado Springs Region
Historic Site	Colorado Springs Regional Study through The Story of Us at Pioneers Museum
Assessment Question	Show on the Colorado Springs regional map where major flooding events have occurred and discuss why.
Contextual Paragraph	Students will use questions to locate flood events on the map and discover why flooding has historically occurred in this region. Many floods in the region have been caused either by excessive downpours or by burn scars. Students will use a map of the Colorado Springs region to locate the flood areas and the causes. Students will read newspaper accounts of floods and listen to audio recordings to locate and study the locations of streams and creeks that played a role in flooding an area.
Connection to Historic Preservation	How changes throughout the development of the region affected the environment to help create flooding situations.
Visiting the Museum	Please note: If you are planning a trip to the Colorado Springs Pioneers Museum to have your students experience the SOU exhibit in person, please make sure to contact Meg Poole at the museum at least 2 weeks before your intended visit. This helps to ensure that someone is available to greet you and to help you navigate the museum. Contact info: Meg Poole, mpoole@springsgov.com and/or 719-385-5631



Document Set	
<p>The Story of Us Colorado Springs Pioneers Museum</p>	<p>GUIDING QUESTIONS:</p> <p>Click on Button H for Historical Maps.</p> <ol style="list-style-type: none"> 1. Locate Waldo Canyon, Fountain Creek and Camp Creek on the Colorado Springs map. 2. Based on the creek flow, what cities and towns could be affected by a flash flood? 3. Can you think of some precautions residents can take to avoid a flash flood?
 <p>The screenshot shows a web browser displaying the 'Story of Us' website. A large orange letter 'H' is prominent on the left side of the page, with the text 'H is for Historic Maps' below it. The main content area features a historical map of Colorado Springs with various landmarks and streets. A 'SHOW TO USE THE MAP' button is visible. The bottom of the page shows a timeline and a 'tierra plan' logo.</p>	
<p>http://storyofus.tierraplan.com/</p>	



Click on Natural Disasters Button 2 for
Waldo Canyon Fire

Use a notebook to answer questions



Natural Disasters Button 4: 1935 Flood

GUIDING QUESTIONS:

Click through Newspaper Icon to “Flash Floods Pose New Threat After Fire Moves Through Area” Colorado Springs Gazette, July 5, 2012. Read the article and then answer the following questions:

1. List THREE risk factors for flash flooding after the fire.
2. Locate the TWO creeks listed that threatened to flood.
3. List at least TWO of the organizations that were considered to have expert information about potential flash flooding.
5. List at least FOUR prevention methods you can find to help control flooding.

Now, look at all the PHOTOGRAPHS.

1. Click on the AUDIO samples and Listen to BOTH recordings.
2. What do you think caused the flooding and massive damage to structures?
3. Listen to the FIRST audio again and explain what caused the flood based on the first person’s account. Be sure to listen to what the observer heard.
4. List the types of structures that were lost or damaged.
5. How did one woman survive the rushing waters?
6. Study the city map on letter H and find the areas described through the photographs and audio recordings that were affected by the flood. Look for Uintah, Bijou, Colorado Ave and Fountain Creek.

Assessment Question

Based on your understanding of floods, what advice could you give to someone if they heard the National Weather Service announce a “FLASH FLOOD” in your area?

Response

Students may create a PSA or flyer to explain safety procedures for a FLASH FLOOD WARNING.