Flood Safety:

Before a Flood
♦ Keep an emergency kit accessible. Include a battery-powered radio, extra batteries, flashlights, rubber boots and gloves, first-aid supplies, necessary medicines, drinking water stored in tightly sealed containers and food that requires no cooking or refrigeration.
♦ Have a plan for where your family will meet in an emergency and make sure children know where to go when they are at school or away from home. Download a template at boulderfloodinfo.net.

During a Flood
♦ Round up family and pets.
♦ Move to higher ground immediately.
♦ Turn off electricity and gas, if time allows.
♦ Do not walk through flowing waters. Swift moving waters may sweep people away causing death.
♦ Do not drive through flooded areas. Cars float in 18 inches of water and half of all flood fatalities are auto-related.
♦ Stay away from power lines and electrical wires. Electrocutation is the number two killer in floods.

After the Flood
Do not return to disaster areas until authorized. Clean everything that got wet and take care of yourself.

Flood Warning Systems
Listen for public emergency sirens.
In the Boulder area, here are the local places to tune in to a flood warning:
AM radio stations 850 KOA • FM radio stations 98.5 KYGO
TV broadcast stations 2, 4, 7, 9 • TV cable station 8

What do the different flood warnings mean?
Flood Watch or Flash Flood Watch - Flooding may happen soon, stay tuned.
Flood Warning - Flooding may happen very soon, prepare to evacuate area.
Flash Flood Warning - Flash Flood is happening, get to higher ground immediately.

What other things can I do to prepare for a flood?
Prepare a list of emergency phone numbers. Make a flood response plan, which includes a meeting place for family members away from the flood area. Assemble supplies needed for clean-up and recovery.

FLOOD TIP:
Find out if your home is located in a flood plain. Call (303) 441-1880 or go to www.fema.gov. Or, go to www.fema.gov/kids/floods for more kid-friendly flood facts.
Activity Directions:

Hand out the Flood Forces student activity sheet. Five possible flooding scenarios will gauge students’ flood awareness. Divide the class into five groups and assign each group a scenario. Have the class brainstorm about each scenario. After a short discussion, have one person from each group explain the scenario and describe the decision they would make. After the rest of the class agrees with their answers, discuss any misconceptions. Do this with each of the five groups.

Discuss the potential flood risk in Boulder and its surrounding areas. Explain how floods are caused. Discuss some of the things students and their parents can do to prepare for a flood.

After the scenarios and the class discussion, the students are ready to take on the WBI Agent Action Assessment side of the Flood Forces student activity sheet. Have students work alone to answer T/F statements about floods and flood safety. After 10 minutes, discuss each correct answer with the students.

Activity Answers:

Critical Decision Scenarios

Scenario 1 answer
Climb to safety immediately. Moving as little as 10 feet higher than where you are can make all the difference. Flash floods can come extremely quickly—seconds count, so leave all personal belongings. Do NOT try to outrun a flood either on foot or in a vehicle. Do not walk in floodwaters. If the water is over your ankles, turn around and go the other way. Never drive in floodwaters. It takes only 18 inches of water to carry a vehicle away.

Scenario 2 answer
Never drive in flood waters. Turn around and go home via an alternate route. It takes only 18 inches of water to carry a vehicle away. You are not safe in your car if you are washed away—you are vulnerable to further flood hazards.

Scenario 3 answer
Do not eat or drink anything that has contacted flood water, it can be contaminated with sewage and hazardous chemicals. Do not walk through the water in your basement either. Immediately go tell your parents that there is water in the basement. They should turn off the gas and electricity going to the house and tune-in to local stations for flood warnings.

Scenario 4 answer
Go back to school and call your parents to make a plan. Do not walk in flood waters. Even 6 inches of water can knock you over. Debris, such as sticks and other floating items in flood water can be extremely dangerous both as a hazard to people, and as a way to further block waterways and worsen flooding.

Scenario 5 answer
A Flood Warning means flooding may happen soon and you should be prepared to evacuate your home. Contact your sister at her friends house and if she is in a safe area she should stay put. Your parents should make a plan to meet her if necessary. Follow your flood response plan, which includes a meeting place for family members away from the flood area.

Background Information for Class Discussion:

Flooding happens in Colorado:

Floods are the most common and widespread of all natural disasters—except fire. Although flooding normally occurs in the spring, flooding can happen any time of the year and can happen in any area when there is too much water on normally dry land.

Floods can be devastating. For example in 1894 Boulder experienced a major flood which took out every bridge in Boulder Canyon. Water stretched up to a mile wide in some places. In July of 1976, the Big Thompson Canyon Flash Flood killed 139 people.

Flood Facts:

Floods that happen very quickly are called flash floods. They occur in creeks and canyons with a mountainous upstream water source. When enormous amounts of water from rain or runoff cannot sink into the ground fast enough, streams and river beds fill up and over flow quickly. With flash floods, it is vital to move to higher ground immediately; there is no time to stop for personal belongings. Flash floods can come at you as a high wave of water and are powerful enough to uproot trees and wash out roads and bridges. They can even happen in low spots in cities and suburbs.

Floods happen when heavy rain falls over an extended period of time causing slow-moving water to flood a neighborhood. Floods can carry a lot of debris, including branches, boulders, toys, firewood, fuel tanks, tools and vehicles. Debris worsens floods by blocking waterways and can be an additional hazard to people.