



Name: _____

Date: _____

Headwaters Drought Resilience Challenge - Student Worksheet - MS

Before the game:

1. What community member role were you assigned?

I was assigned to be a(n) _____

2. What other community members are on your round table team?

My team consists of _____
_____.

3. Based on your role, what impacts of a drought do you think you would be most concerned about?

I might be concerned about _____

because _____



During the game

Complete the chart for each round by writing the names of the resilience and/or recovery strategies you invested in, the summary of the impacts you rolled out, and which strategies mitigated that impact. Leave the box blank or write “none” if you did not invest in strategies that mitigated that impact.

Example

Resilience Strategies You Invested In (name + letter)	Summary of Impacts	Strategies you invested in that mitigated that outcome (letter)
Recharge Local Aquifer (B)	Ranchers hay harvest takes a hit (3)	I
Develop a Graywater Recycling Program for Public Parks (E)	Water restrictions for residents (8)	none
Improve Ditches and Irrigation Systems (I)	Wildlife experience stress (12)	M
River Habitat Restoration Project (M)		

Round 1

Strategies You Invested In (name + letter)	Summary of impacts	Strategies You Invested in that Mitigated the impact (letters)



Turn and Talk: Turn to one of your team members (if there is an odd number of team members, there will be one group of three) and discuss the following questions.

- Why did your team choose to invest in the resilience strategies that it did?
- What impacts were your community prepared for because of these strategies?
- Is there anything you would have done differently?

Round 2

Summary of impacts	Strategies You Invested in that Mitigated the Impact (letters)

Turn and Talk: Turn to one of your team members (if there is an odd number of team members, there will be one group of three) and discuss the following questions.

- What do you think are the highest priorities in the early stages of drought?
- How can investing in resilience strategies *before* a community experiences drought help that community navigate drought if and when it does occur?



Round 3

Summary of impacts	Strategies You Invested in that Mitigated the Impact (letters)

Turn and Talk: Turn to one of your team members (if there is an odd number of team members, there will be one group of three) and discuss the following questions.

- Before the game started, your team tried to guess which actions would best protect your community from drought. Which actions were the easiest for your team to agree on? If you played the game again, would you choose different investments?
- Which parts of the game felt like they could really happen in real life? Which parts did not feel very realistic? What can this game teach us about how communities can become more resilient?



After the game

Look back at the tables you filled in for all three rounds. When answering the questions, make sure to write out the name of the resilience strategy and give a summary of the impact, instead of just writing letters and numbers. Write your answers using complete sentences.

1. What is an example of a resilience strategy your team invested in that helped mitigate the greatest number of impacts? (hint: look for a letter that appears multiple times)

Why do you think this strategy was so effective?

2. Looking back at your results, which impacts were your community unprepared for (which impacts were not mitigated by one of the strategies you invested in)?

How could your team have chosen different strategies to improve these impacts while effectively mitigating all the other impacts as well?

3. Below are some categories that the resilience strategies in the game can be grouped into. Reference the full list of resilience strategies and record 3-5 strategies that fall into each category below



Category	Health	Evacuation Procedures and Shelters	Ecosystems and Environment	Laws and Policies
Resilience and Recovery Strategies that fall under this category (name)				

4. What problems or limitations does a community have to think about when they want to invest in resilience strategies? Explain your thinking. (Hints: you might discuss costs, availability of resources/experts, or personal values)

**** If your class is working with a community expert, this is a great question to ask them!**



5. In earlier lessons, you familiarized yourself with the terms *preparedness*, *resilience*, and *mitigation*.

a. Match each term with its definition by drawing a line between them

preparedness	ability of a community to bounce forward
resilience	ready to respond
mitigation	reduce risk

b. Write a sentence that uses all three words and shows how they are connected.
You may use different tenses of each word.

Optional Extensions:

- Do some research to see if any of the resilience strategies from the game are currently in place in your community. Is anyone planning to implement them? Places to look/people to talk to:
 - Your county [Hazard Mitigation Plan](#)
 - Local Water Commissioners or City and County Planners
 - Drought.gov
- What types of things are you good at? Based on these things, what is one thing you as an individual can do to prepare yourself or your family for a drought?