

Name: _____ Date: _____ Period: _____

Streams and Steam

Rules of Play

1. Every player rolls the die. The highest number goes first.
2. Players follow from left to right.
3. All players begin with their coin on the start space.
4. Roll the die and move the coin the number of spaces indicated.
5. When a player lands on a space that is at the top of a stream, they “raft” down the stream (in the direction of the arrows) by moving their coin to the square at the bottom of the stream.
6. When a player lands on a space that is at the bottom of a column of steam, they rise up the column of steam by moving their coin up to the square at the top of the steam column (in the direction of the arrows).
7. The squares without pictures do not require any further action. Rest there until your next turn.
8. Two or more players may stop at the same square.
9. The first player to cross into the finish space wins the game. An exact roll of the die is not required.

Game Table

List all of the causes and effects that you and your group members land on when you go down a stream and/or up a column of steam while playing. Only write each pair of causes and effects once if it is landed on multiple times. For each cause and effect pair, choose one or more action types (from the Key of Action Types) that could be taken in response. Write the corresponding letter for your chosen action type(s). You may choose more than one action type.

Key of Action Types

- A. **Water Conservation:** use methods to decrease water use
- B. **Mitigating Climate Change:** use methods to reduce greenhouse gas emissions
- C. **Risk Management Planning:** follow procedures to avoid or minimize the impact of climate change

Cause	Effect	Action Type(s)
<u>Example:</u> Increased evaporation	More severe drought in some areas	A, B, C

Conclusion

1. Choose one of the effects from the game table. Explain how this change to the water cycle affects humans.

2. Choose three of the effects and actions from the game table. Fill out the table below and explain, more specifically, what actions could be taken to respond to each effect.

	Effect	Action Type	Example Action
1	<u>Example:</u> More severe drought in some areas	A. Water conservation	Xeriscaping (landscaping to minimize water use)
2			
3			

3. Using words and/or drawings, explain why we are observing the phenomenon we are investigating in this unit: *In New Mexico, temperatures are expected to rise, and precipitation patterns are expected to increase in variability.*

Explanation: