

Effects of Climate Change



on the Water Cycle

DIRECTIONS

Please follow the rules below to play a round of Streams and Steam with your group, and answer the questions.

RULES OF PLAY

1. Roll the die to determine who starts the game.
2. Player who rolls the highest number plays first.
3. Players follow in turn from left to right.
4. All players begin with their coin on the start space.
5. Roll die and move the coin the number of spaces indicated.
6. When a player lands on a square at the TOP of a stream, the player will "raft" down the stream by moving their coin down to the square at the bottom of the stream.
7. When a player lands on a square at the BOTTOM of a column of steam, the player will rise up the steam column by moving their coin up to the square at the top of the steam column.
8. The squares without pictures are regular squares and do not require any further action.
9. Two or more players may stop at the same square together.
10. The first player to cross into the finish space wins the game; an exact roll of the die is not required to win.

QUESTIONS

1. 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 Streams and Steam. 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.

- 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

<u>Example:</u> Increased evaporation	More severe drought in some areas	<u>A, B, C</u>
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3. 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.

<u>Example:</u> More severe drought in some areas	A) Water Conservation	Xeriscaping (landscaping to minimize water use)
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