

The Heat is On: Cause and Effect and Climate

Student Activity Guide

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Introduction

Long-time residents of the fictitious community of Solutionville have noticed a troubling trend in their small town that they want to get to the bottom of. For this activity, imagine you are a citizen of Solutionville who has volunteered to serve on the Troubling Trend Task Force. As a member of this task force, you will explore the following questions:

- How might we determine if one thing causes another?
- What's causing temperatures in Solutionville and around the globe to increase?

Your Challenge (read all instructions before you start!):

- 1. On your own, **read** PAGE A1 of the *Solutionville Inquirer* newspaper article "Things Are Heating Up in Solutionville."
- 2. **Draw** a fishbone diagram with your own hypotheses about what could be the cause of the temperature rise in Solutionville and around the globe.
- 3. **Choose one** of the hypothesis (#1, 2, or 3) from pages A2-A4 of the article to read individually (make sure each person in your group reads a different hypothesis). **Take turns explaining** the hypothesis you read to your group, and answer any questions they have.
- 4. **Decide** as a group if you think any of the arguments presented in the three different hypotheses are valid. Write down your thoughts about the following questions:
 - Do you think any of these residents have identified the correct cause, or at least a plausible one?
 - What criteria did you use to make your decision?
 - What is 'evidence,' and what makes good evidence?
 - Do you think you need any other information to make your decision?
 - If things seem to vary or change in a similar way, does that mean one causes the other? Why or why not?

Did You Know?

Although Solutionville is a fictitious community, the issue of increasing temperatures you will read about is a REAL phenomenon that has been recorded around the globe.











Name:	Date:	
Notes, questions, and doodles:		
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