

Cosmic Chemistry: An Elemental Question

The Search for Critical Questions

STUDENT ACTIVITY

1. As you try to construct your puzzle, record the clues in the puzzle that helped you complete the task, and explain how these clues helped.
2. Was your puzzle complete? If not, describe what you think the missing pieces look like. Be as specific as you can.



3. Compare the pieces in your envelope with your predictions in the second question.

- a. In what aspects were you close to the correct description?
- b. In what aspects were you farther from the correct description?
- c. What characteristics of the puzzle gave you good information about the missing piece?
- d. What was missing in your clues or your analysis of the clues that prevented you from successfully predicting exactly what the missing pieces looked like?



4. Following the class discussion, record some critical questions to ask as you begin to solve any kind of problem.

