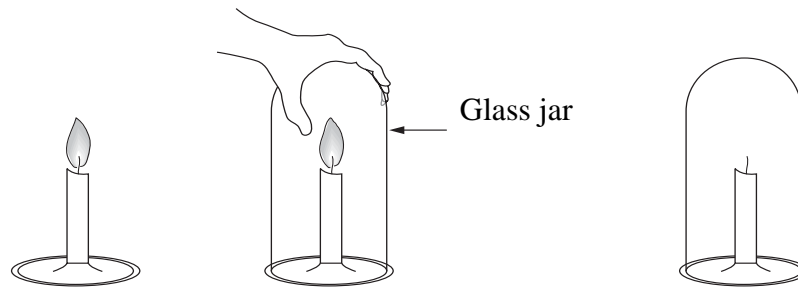


Q4. When a glass jar is placed over a lighted candle, the flame goes out.



Why does this happen?

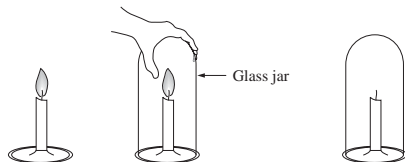
Q-4

Reproduced from TIMSS Population 1 Item Pool. Copyright © 1994 by IEA, The Hague

Subject	Item Key	Content Category	Performance Expectation	International Average Percent of Students Responding Correctly		International Difficulty Index
				Upper Grade	Lower Grade	
Science	Next Page	Physical Science	Theorizing, Analyzing, and Solving Problems	64%	49%	540

Q-4 Coding Guide

Q4. When a glass jar is placed over a lighted candle, the flame goes out.



Why does this happen?

Copyright © 1994 by IEA, The Hague

Code	Response
Correct Response	
10	Refers to the need for oxygen. <i>Examples: Fire does not get enough oxygen. The oxygen will be used up.</i>
11	Refers to the need for air. <i>Example: Fire does not get enough air.</i>
12	Refers to the need for air, using non-scientific language. <i>Examples: The fire will be "strangled". The fire cannot breathe.</i>
19	Other acceptable.
Incorrect Response	
70	Refers to its getting too hot.
71	States that the gas (smoke, vapor, carbon dioxide...) is trapped inside the jar. <i>Example: The smoke cannot come out.</i>
72	Refers to the properties of the glass. <i>Example: The glass makes it cold.</i>
76	Repeats the information in the stem. <i>Example: The glass is placed over it.</i>
79	Other incorrect: <i>Example: You put it on too fast and the wind makes it go out.</i>
Nonresponse	
90	Crossed out/erased, illegible, or impossible to interpret.
99	BLANK