

Edheads' STEM Mysteries: Historic Hotel Student Activity Sheet

Name: _____ Grade or Period: _____

1. What concerns did the architect list in their report? (Identify the problem.)

2. Sift through the information the architect has gathered and evaluate whether it is a potential cause of the damaged column. (Evaluate evidence)

Information	Possible Cause of Damage? (yes or no)	Explanation
Age of column		
Construction of high rise		
Earthquake		
Heavy load on column		
Hurricane damage		

Water damage from broken pipe		
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3. Using Claim-Evidence-Reason, summarize the possible cause of the dilapidation. (Draw conclusions)

<p>Claim (believed cause of damage):</p> <p>Evidence (summary of research on the cause of damage):</p> <p>Reasoning (elaborate on the explanation from the table above):</p>
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4. At this point, the architect will hand the investigation over to a structural engineer. Research and summarize the job of a structural engineer. What might the next steps be for the resolving the issue at the building? (Collaboration amongst STEM professionals)

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