

Worksheet 8.12

Rock changes – assessment for learning



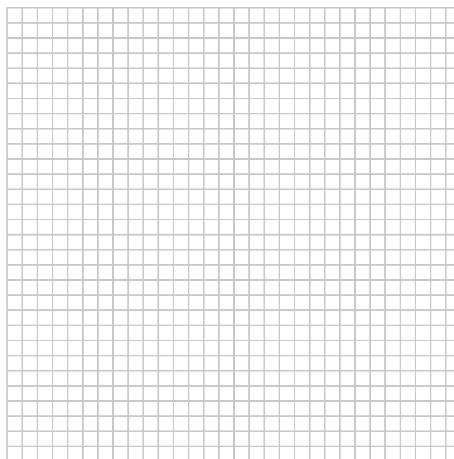
This is a data-handling exercise.

Some students investigated the effect of different strengths of acid on pieces of limestone. They placed limestone into acids of different pH and checked to see how many days it took for the piece of limestone to disappear.

The table shows the results of the experiment.

pH of acid	Number of days taken for the limestone to disappear
6	54
5	38
4	25
3	15
2	11
1	7

1 Using their data, plot a graph and comment on the students' findings.



2 Explain what they should have done to make their investigation a fair test.

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3 Explain what they should have done to ensure their results were reliable.

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4 Swap your work with your partner. Use the tables on the next page to assess your partner's work.



Assess your partner's work using the tables below.

Feature	Yes or no?
Has a graph been plotted using a pencil and ruler?	
Have the axes been drawn the correct way round?	
Have the axes been labelled and units given?	
Have the points been correctly plotted?	
Has a line of best fit been drawn?	
Has a statement about what the results show been made?	
Have these results been explained?	

Describe one thing that your partner has done well.	
Describe one thing that your partner could improve.	

Now look at your own work. Do you agree with your partner's assessment?

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