Equipping the Next Generation for Active Engagement in Science

eco-phone

The claim is:
A grass-resin material has properties suitable for making smartphone casing.

Our first piece of evidence is:

Our second piece of evidence is:

We think the claim is / is not reasonable.

Our reasoning is:

Interrogate sources checklist

Write in the name of the source at the top of each column.

Add ticks to show if the source contains evidence of reliability.

Use with sugar battery sources

Count up the number of ticks in each column. The more there are, the more reliable the source is.

Evidence of reliability	Name of source			
The authors are qualified scientists				
Any research mentioned has been published in a peer-reviewed journal				
The research is recent (< 5 years old)				
The researcher or funder will not benefit from the source (e.g. by making money)				
It is not biased (favours one opinion)				
It contains a scientific explanation of the findings				
The findings are backed up by other research				
The research was based on a lot of data				

Analyse patterns: bar charts

Use with circuit board sources

Identify the variables

Figure 1

● The independent variable (x-axis) is   ● The dependent variable (y-axis) is

Describe the pattern

Write a sentence to describe what the bar chart shows.

Include the names of the two variables.

Give numbers

Add values to illustrate any differences.

Compare numbers

Say how many times larger one number is than another.

Suggest reasons

If possible, use scientific ideas to suggest reasons for any differences.

Get students talking and thinking

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