

He loves me... he loves me not: The (somewhat accurate) love meter



Today I brought a "love meter", I got it from a vendor at the flea market whom I've known for a couple of years. She claimed that "if someone is in love, the love meter will tell the truth. And if they aren't - nothing will happen. But be careful, sometimes people who do not truly love, try to press the love meter soooo hard that it breaks. But that won't change a thing. If you don't love, it just doesn't show any change!".

Does somebody in class want to try it? It is easy!



Task in front of the class: Wrap the lower bowl of the love meter and think about something or someone you like.

Engage



In groups

Task 1: Explore the behavior of the love meter

- Is there a difference if you lay the love meter on top of your palm, if you wrap it with your whole hand or if you place it in warm water?

Task 2: Describe what you did and what happened. Take into consideration the structure of the love meter.

Explore



Task 1: Hypothesize: How does the love meter work?

Task 2: Give a reasonable explanation for your hypothesis based on the particle theory of matter.

Task 3: Rub some alcohol or acetone on the top of the love-meter. Describe what happened. Suggest an explanation.

Explain



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Extend

Task 1: Pseudo-science is beliefs or claims that are presented as scientific but have no scientific backing.

1. Do you think that the love meter is an example for pseudo-science?
2. Think and bring up pseudo-scientific claims from everyday life and suggest how they might be tested scientifically.



Evaluate

Task:

Submit the answers to the tasks to your teacher.

