

6. Magic cups

Topic: Sound and movement

Objective: Students will learn about sound waves that produce sounds when they occur in glass objects and how those sounds get different depending on how much liquid there is inside. In addition, they will see how the waves can generate vibrations that can make some objects move.

Vocabulary: sound waves, wine glass, circumference

Materials:

- 2 equal wine glasses (large)
- Water
- Matches

Development:

- **Read and look at the pictures.**

Step 1. Put a little bit of water in one of the wine glasses.

Step 2. Wet your finger a little and touch the circumference of the empty wine glass.

Step 3. Put two matches, parallel to each other, on the edge of one wine glass.

Step 4. Put the two wine glasses 1 cm apart from each other.

Step 5. Wet your finger again and touch the circumference of the wine glass with no matches on top quickly - observe what happens with the matches on the other glass.



Step 1.



Step 2.



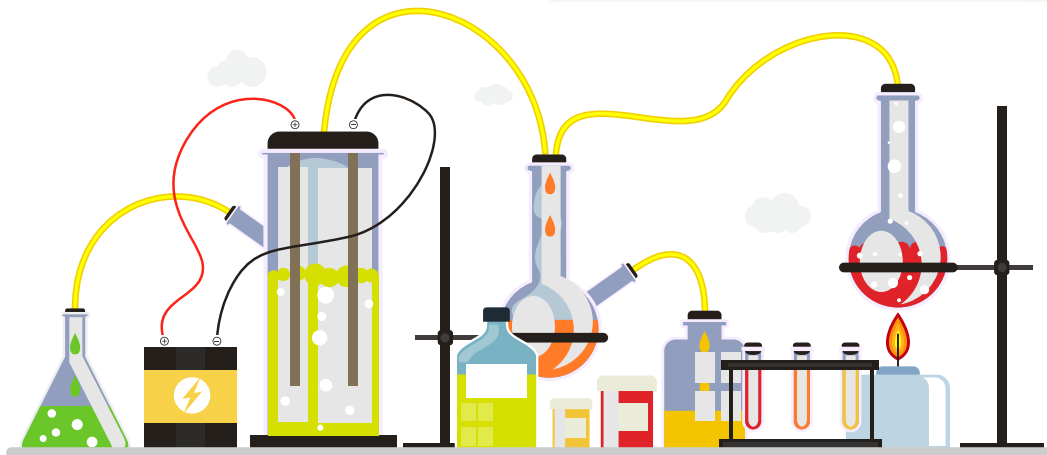
Step 3.



Step 4.



Step 5.



Tell us...

Read and write YES or NO.

1. Sound waves are made because of the liquid in the wine glass. _____
2. The sound made by each wine glass depends on the amount of liquid. _____
3. The vibration of the wine glass made the match move. _____
4. Your fingers can make music when you rub them together. _____
5. The matches moved as consequence of the music. _____

Glue a picture of your project finished!

Magic cups

Glue your
picture here
:)

1. What was your favourite part of the project? _____.

2. What, exactly, did you like the most?
_____.

3. Extra notes on what you observed during the project. _____

_____.

4. Can you see or apply the information from the project in real life? YES / NO
Explain: _____
_____.

5. Was it easy to get the materials for the project? YES / NO
Explain: _____
_____.