

Science Lab

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6. Is it hard or soft?

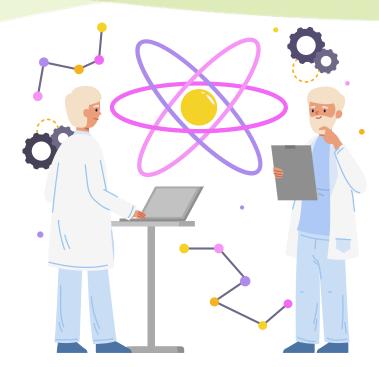
Topic:	Surface change by chemical reaction				
Objective:	Students will observe how a shell gets coloured and softens when kept submerged in a specific liquid – and then it getting hard again by keeping it out.				
Vocabulary:	shell, colour bar				
Materials:	- 1 bottle of vinegar (white)				
	- 3 glass jars				
	- 3 markers				
	- 3 eggs				
	- A neon light				

Development:

• Read and look at the pictures.

- Step 1. Get the colour bars that are inside the markers and put them in the jars.
- **Step 2.** Pour 1 cup of vinegar into each jar make sure all the colour inks out.
- **Step 3.** Add the eggs (one in each jar) and comment if something is happening.
- **Step 4.** Leave the eggs in the jars for one day.
- **Step 5.** Take out two of the eggs and feel them comment.
- **Step 6.** Bounce one of the eggs a few times on a surface from a short distance did it break?
- **Step 7.** Try bouncing a second egg from a higher point did it break?
- **Step 8.** Feel the third egg to make sure it got soft put it on a surface and leave it there for a day, what happened with it? Is it soft? Was there a different change?

Note. You can use the neon light in a dark area to enjoy the colour view.





Tell us...

Read and write YES or NO.

- 1. You painted the eggs before putting them in the jars.
- 2. Markers have a colour-pad that makes the colouring happen.
- **3.** The change from hard to soft on the eggshell took two days.
- 4. Water was the liquid that made the change happen.
- 5. The breaking was provoked by the softening on the eggshell.

Glue a picture of your project finished!

ls	it	hard	or	soft?

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: _____