

Science Lab

5



8. Spectroscope

Topic: Decomposition of white light in different colours

Objective: Students will observe that not-all-light sources are the same, the secret lies in

its spectrum: the colours that compose from it.

Vocabulary: spectroscope, spectrum, compose, decomposition

Materials: 1 cardboard box (cereal type)

1 old CD or DVD1 cutter or scissors

1 protractor

Opaque adhesive tape

Different sources of light: incandescent bulb, low consumption, halogen,

colored lanterns, LED, etc.

1 ruler

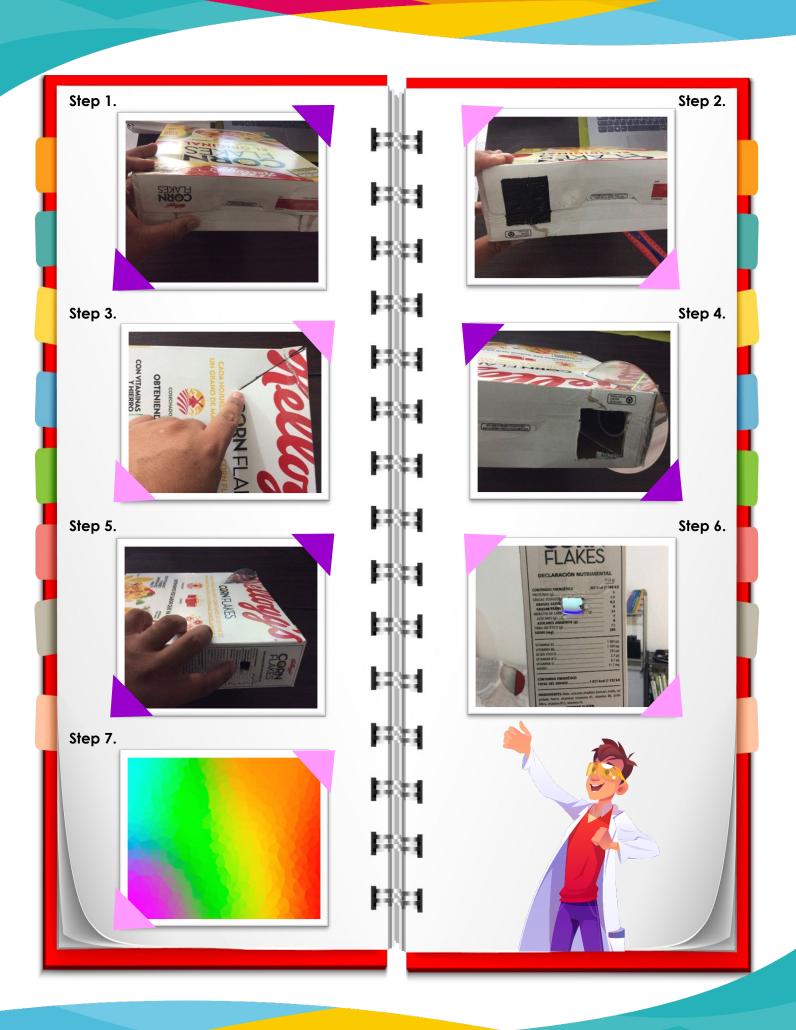
1 pencil or pen

Development:

Read and look at the pictures.

- Step 1. Close the box and its openings well with the adhesive tape avoid slots.
- **Step 2.** Draw a 4-cm square that will work as the viewing window cut it out.
- **Step 3.** Draw two 9-cm lines (60°) one on each side just right below the viewing window.
- **Step 4.** Cut the lines all the way side to side and slot in the CD.
- **Step 5.** Opposite side, at about 7 cm from the top, draw a 1-cm square and cut it out.
- **Step 6.** Test your spectroscope by looking at different sources of light.
- **Step 7.** What colours can you see? What forms do they take? Are the colours still? Do they look like moving?





Read and write YES or NO	.
 All the colours of the ra White light is made by the 	that all the light sources are the same. inbow are called spectrums. the combination of all the colours. the colours you know in the experiment. led for this experiment.
Glue a picture of your pro	oject finished!
	Spectroscope
	Glue your
	picture here :)
I. What was vour favourite	e part of the project?
I. What was your favourite	e part of the project?
2. What, exactly, did you l	like the most?
2. What, exactly, did you l	like the most? u observed during the project.
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2. What, exactly, did you lead to be seen as a see or apply the second to be seen a	like the most? u observed during the project. he information from the project in real life? YES / NC
4. Can you see or apply th Explain:	like the most? u observed during the project. he information from the project in real life? YES / NO