25SCHOOLS
FREE LEARNING NOTES FOR ZAMBIA

GRADE 2 · TERM 3

Science

Soluble Materials

Lesson notes for learners · Competence-Based Curriculum

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Some materials mix into water and seem to disappear. Others stay in the water and do not mix. In this note you will learn which materials dissolve in water and which do not.

AFTER THESE NOTES YOU SHOULD BE ABLE TO

- Say what soluble and insoluble materials are
- Name soluble materials such as sugar, soda and salt
- Name insoluble materials such as chalk and sand
- Sort materials into soluble and insoluble

KEY WORDS

Soluble	A material that dissolves in water.
Insoluble	A material that does not dissolve in water.
Dissolve	To mix into water so that you cannot see it any more.

1 Soluble and insoluble materials

Put some materials in water and stir. Look at which materials dissolved in water and which did not dissolve.

Some materials like sugar, soda and salt are called soluble materials because they dissolve in water. Some materials like chalk and sand are called insoluble materials because they do not dissolve in water.

Soluble (dissolves in water)	Insoluble (does not dissolve in water)
Sugar	Chalk
Soda	Sand
Salt	

Figure 1. Soluble and insoluble materials

2 Trying more materials

You can try more materials to find out if they are soluble or insoluble, such as soda, rice and chalk. Soda means sodium bicarbonate.

Dissolving is not the same as melting. When sugar dissolves in water, it is not melting.

To sort materials, use picture cards that show soluble and insoluble materials in water. Put each card in the right group.

TRY THIS

Ask an adult for a cup of water, some salt and some sand. Put the salt in one cup and the sand in another. Stir both. Tell a friend which dissolved and which did not.

REMEMBER

- Soluble materials dissolve in water
- Sugar, soda and salt are soluble
- Insoluble materials do not dissolve in water
- Chalk and sand are insoluble
- Dissolving is not the same as melting

? Check yourself

1. What does soluble mean.
2. Name one insoluble material.
3. Is dissolving the same as melting.
4. Mulenga is helping his mother in the kitchen at home. She puts salt in one cup of water and sand in another cup, then stirs both. (a) Which one dissolves. (b) Which one stays in the water. (c) Which is the insoluble material.
5. Chanda is sorting things at school for her teacher with sugar, chalk and soda in water. (a) Name the two soluble materials. (b) Name the insoluble material. (c) What do we do to the water to see if they dissolve.

ANSWERS

1. It dissolves in water.
2. Chalk or sand.
3. No.
4. (a) Salt. (b) Sand. (c) Sand.
5. (a) Sugar and soda. (b) Chalk. (c) Stir it.

Written by 25Schools to follow the Grade 2 Science syllabus of the Zambian competence-based curriculum. Free for learners to read, download and share. More notes and quizzes at 25schools.com.