

Natural Science Grade 7 Term 2 Summary

Term 2: Matter and Materials

Topic 5 Properties of materials.

Physical properties of materials

compressive strength – strength of an object that stops it from being crushed, or changing shape when it is pushed or squeezed

tensile strength – strength of an object that stops it from breaking when it is pulled apart

flexibility – ability to bend easily.

Strength

- ✓ Materials can be strong in different ways.
- ✓ Concrete is very strong.
- ✓ Concrete does not easily change shape and it is difficult to crush.
- ✓ We say concrete has compressive strength.
- ✓ Materials such as concrete, rock and bricks have high compressive strength.
- ✓ Steel is strong in another way.
- ✓ It can resist being stretched.
- ✓ Steel can withstand tension.
- ✓ We say that steel has tensile strength.

Flexibility

- ✓ Flexibility is a measure of how easy it is to bend a material.
- ✓ Flexible materials can bend without breaking.
- ✓ For example, rubber is a flexible material.
- ✓ It is easier to water the garden with a rubber hose than a steel one.

Boiling points and melting points

- ✓ Water can be in solid, liquid and gas states.
- ✓ When ice melts it changes from solid to liquid, and it does this at around 0°C.
- ✓ We call this the melting point of ice.
- ✓ If you heat water, eventually it will boil. It does this at around 100°C.
- ✓ We call this the boiling point of water.
- ✓ Pressure and impurities, such as chemicals in the water, make a difference to melting and boiling points.
- ✓ For example water boils at about 96°C in Johannesburg because of the lower air pressure there.

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