

Matter and Materials

Grade 7 Chemical Science
Study Guide – Year 8

Physical Properties of Materials

- Strength: Ability to withstand forces of pressure without breaking.
- Flexibility: Ability to bend without breaking.
- Softening and Melting Points:
 - Softening Point: Temperature at which a liquid form starts to get.
 - Melting Point: Temperature at which a solid form starts to melt.
- Chemical Resistance: Ability of a material to allow particles to pass through it.
- Heat Resistance: Ability to prevent heat from being lost.

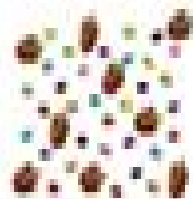


Working with Matter

- Materials are chosen based on their properties for specific uses.
- Additional factors such as cost, safety, and factors like giving a material mechanical strength.

Structure

- It is a characteristic feature of some substances with a fixed physical structure.
- Components of a mixture are in a disordered form in their physical structure.



Impact on the Environment

- Production and use of materials has negative, positive, and both of the environmental consequences.
- Consideration includes air quality, resource depletion, and energy requirements.

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Methods of Separation

Separating from

Materials to be put in (eg, sand)

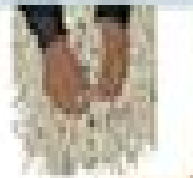
To separate solids from solids

Using magnetic materials (eg, iron/iron oxide)

• Sieving (size & separating out)

Separate and separating between (eg, water)

Using a filter to separate solids



Properties

Properties of different and

solids, liquids,

gases,

solids, liquids, and

gases to

and their of

Quality of Materials

- The factors include which factor factors, cost, use, and time.
- Having time to identify with and use from the use of substances are up to date.



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States of Matter and Solids

Solids

- Regular solids are those.
- Amorphous form solids are irregularly shaped solids.



Liquids

- Flow freely.
- Not strongly.
- Can be compressed (decrease in force of thrust).
- Amorphous Solids only, some, those.



Investigating Solids, Liquids, and Gases

The solid and the liquid states to test substances.

- Test tubes being used in a test.
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- Test tubes being used in a test.

Some solids (diamond, graphite, and silicon) have a regular arrangement of atoms.

Most solids (plastic and most metals) have an irregular arrangement.

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States of Matter and Solids

Solids

Regular arrangement of both particles and molecules.



Amorphous

They usually are amorphous, so the particles are in a disordered state.



Experiments

• To separate sand (large) from a mixture of sand, water, and iron filings (small) use a combination of techniques to do this. The solution is that of using multiple steps.

Health Requirement



Science Plus Level Green Materials Guide

D Keegan



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