

Grade 06 Chapter Notes





CHAPTER NOTES

Sorting of Materials into Groups





1. Need for Sorting Materials

- Sorting materials into groups helps to arrange them in a systematic manner.
- Sorting provides an ease in handling objects.
- Sorting makes it easy to study and compare the properties of objects.



2. Sorting Based on Properties of Materials



 Objects are made up of different types of materials like steel, plastic, wood, leather, metals, and more.







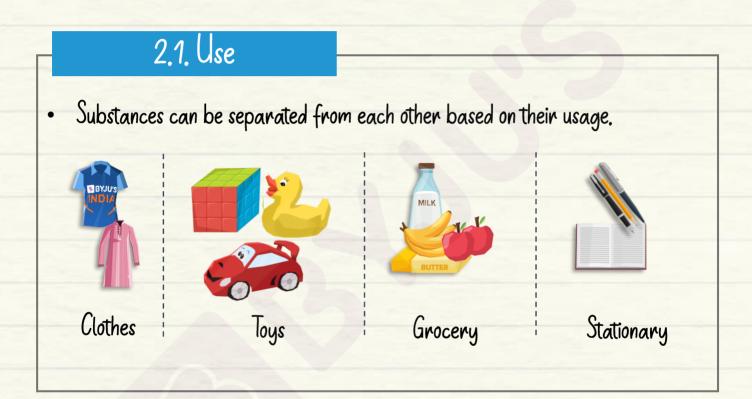
· Objects can be made up of one or more than one type of material.







Following properties of materials can be used to sort objects:





Sorting Based on Properties of Materials

2.2 Appearance

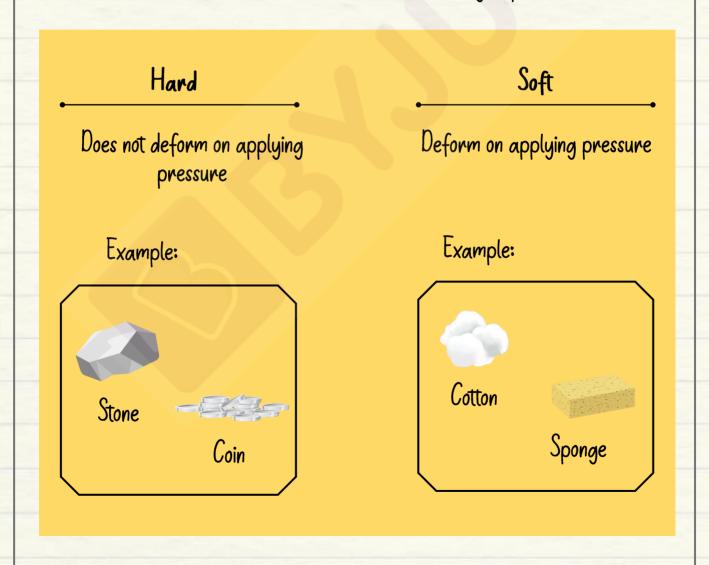


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Sorting Based on Properties of Materials

2.3 Hardness

- On pressing different materials, some may be hard to compress while others can be easily compressed.
- · Based on hardness, substances can be sorted into two groups:





Sorting Based on Properties of Materials

2.4 Floatation

- · If an object is lighter than water, it will float.
- If an object is heavier than water, it will sink.



Objects lighter than water - float

Objects heavier than water - sink

Sorting Based on Properties of Materials



2.5 Solubility

- · Ability of the substance to mix completely in another substance
- · Based on solubility in water, substances can be sorted into two groups:

Insoluble in water

Do not dissolve completely in water

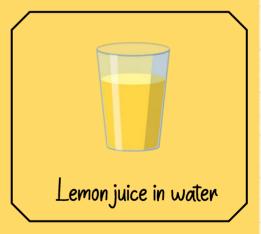
Example:

Oil in water

Soluble in water

Dissolve completely in water

Example:



Sorting Based on Properties of Materials



2.6 Transparency



Transparent

The materials through which objects can be seen clearly

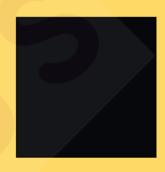
Example: Clean glass



Translucent

The materials through which objects can be seen, but not clearly

Example: Stained glass, glossy paper



Opaque

The materials through which objects cannot be seen

Example: Wood, steel





