



**Unit 4- Materials**

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**Key Words** of the unit. Translate into Spanish all the Key words that appear in the unit.


ENGLISH	SPANISH	ENGLISH	SPANISH

What are raw materials?. Classify the raw materials into 3 main categories.

Raw materials and materials are the same concept?. Explain a little the difference.

Explain the physical and chemical processes to obtain materials from raw materials.

What is a manufactured good?. Copy the 3 steps of the manufacturing process.

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Look the umbrella of page 45. Try to list the different materials that forms this object.

\*\* Copy the table of page 46 in another sheet.

**PHYSICAL PROPERTIES OF MATERIALS.** ( Define briefly the following terms)

- Electrical properties.

- Conductivity

- insulation

- Thermal properties.

- Thermal conductivity

- Expansion and contraction

- Fusibility

- Welding

- Optical properties.

- Opaque

- Translucent.

- Transparent.

- Acoustic properties.
  - Conductivity

- Insulators

- Magnetic properties.
  - Magnetism.

- Mechanical properties.
  - Elasticity

- Plasticity

- Malleability

- Ductility

- Mechanical strength

- Toughness


- Brittleness

- Other properties.
  - Density

- Porosity

- Permeability

- Impermeability

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**CHEMICAL PROPERTIES OF MATERIALS.** ( Define briefly the following term)

- Oxidation.

**ECOLOGICAL PROPERTIES OF MATERIALS.** ( Define briefly the following terms)

- Recyclable materials

- Toxic materials.

- Biodegradable materials.

Which is the difference between renewable and non-renewable materials?.

Draw the symbol that shows that a material is recyclable.