

1 ESO / Technology / Summer Homework Activities /

Student: Course:
..... Date:

1st TERM: The Technological Process and Projects

1. Fill the gaps

Technology produces and develops or strategies that solve and
our needs. In technology we use t..... and k..... to make things.

2. Explain, with your own words, the following steps of a project:

- a) Specify the Need
- b) Brainstorm
- c) Recycling
- d) Verification/Test
- e) Design

3. Give three examples of sources to get information to solve a problem

4.- Name the seven steps you should follow to develop your project.

5. Name the 5 models of societies and explain their characteristics.

6. Write a list (at least 4 words) with the MATERIALS the primitive humans use and transform into objects.

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2nd TERM: Graphic Expression and (3-view) orthographic drawing

1. Complete these sentences using the right words:

- a) Pencils have (en català, "mines") of different hardness in a scale that ranges from "B" to "H".
- b) The most common protractor has degrees. c) We use compass to draw circumferences and
- d) The space between the two points of the compass is the Of the circle. e) (en català, "escaire") is a right-angle isosceles triangle with one angle of 90° and two of degrees.

2. Give five examples of things that you would scale down to draw them and five examples of things that you would scale up to draw them.

3. Write "T" (for true) or "F" (for false) at the end of the sentences:

- a) The softer the pencil, the faster it consumes.
- b) We use protractors to draw parallel lines.
- c) A sketch is a freehand drawing of an object

- d) The 3 views we use to show an object are Plan (or Top), Back and Side.
 - e) The scale 1:20 means that the drawing is 20 times bigger than the real dimensions.
4. Definition of "scale". Write the formula to calculate the scale.
5. Calculate the scale if an object that measures 24 mm is drawn 720 mm long.

6.- Draw the three views (front, side, top) of this object:

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3rd TERM: Materials For Technical Use & Wood

1. Fill the gaps with the appropriate words:

- a) A _____ material is a substance that we get directly from _____. b) _____ material is that has been _____ and is available for making other products.
- c) A _____ product is an object created by _____ to satisfy a need or improve the quality of life.
- d) To make a _____ product, we follow this process: we _____ raw materials from _____. We _____ the raw materials into _____ materials. We use these _____ materials to make _____.

2. Classify these materials as finished products, raw or processed materials:
Book / wooden plank / cotton / sand / glasses / chair / TV / plastic / iron bar / tree trunk
raw materials processed materials finished products

3.- Find the words (adjectives) that match these definitions:

Definition	Defined word
(written as an adjective)	Opposite word (written as an adjective)

a.- difficult to scratch

b.- easily destroyed by shocks

- c.- weighing a lot; difficult to lift or move.
- d.- changing shape permanently when pressed.
- e.- able to conduct electricity, heat or sound.

3. Fill these grid about the two types of natural wood.

Types of wood materials	Type of trees /characteristic	characteristic	2 examples of trees
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4. Explain where the next materials come from and give examples of their use: a) Wood; b) Metals; c) Plastics; d) Textiles.
- 5.- Write a summary of the main steps to make paper.
- 6.- Give three good reasons for recycling of paper.