

TECHNOLOGY – 2º ESO

MATERIALS FOR TECHNICAL USE

1 General rules

1. The report will be done individually.
2. You can find some helpful notes to do this essay on the “Materials” section of the Technology subject menu on the school website.
3. The essay must be done using Docs word processor, included in the Google Suite package.
4. Deadline for delivering your work is 10 January 2022, 23:59 h. No essay will be collected after that date.
5. The first page of the paper must be a cover page, containing the title, "Materials for technical use. Technology" and your full name.
6. The second page of the paper must contain an automatic table of contents showing the page number in which each question is answered.
7. You must create a header for all the pages in your report. These headers must include the name of the school and the title of this essay.
8. You must add a footer for all the pages in your report. These footers must include the actual page number and the page count.
9. Last page on your report must include the used bibliography. If the materials you have used are books, you must give the title, authors' names and the publisher. With other materials (eg. Web sites) you must specify clearly what they are.
10. Use your own words when you are answering the activities. Just copying and pasting text from any source is not the idea for this report.
11. The essay must be delivered as a Google classroom task.

2. Contents

1. What does the word “properties” mean when we talk about materials?
2. Define the concepts bellow:

Raw material	Material	Manufactured good
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Add a list with three examples for each of these concepts.

3. There are six different types of materials for technical use. What are their names and where do they come from?
4. Make some research and find a manufactured good, made of wood in the past, that nowadays is made of plastic or metal. What are the reasons this change has been made?
5. What are the main reasons why electric cables are manufactured with copper? Why are they covered with a plastic wrap?
6. What two types of materials are usually used in manufacturing a frying pan? Why is that?
7. What is the difference between a plastic and an elastic material?
8. Why do you think car metal bodyworks are coated with paint?
9. What is the meaning of the following properties?
 - a. Translucency.
 - b. Thermal insulation.
 - c. Electrical insulation.
10. What is the difference between recyclable and biodegradable materials? Give two examples of each type of material.
11. Find the three profits we obtain by using recyclable materials.
12. Now it is time to look around your neighborhood.
 - a. Look around your street, you will find (at least) four different types of containers. Take a picture of each one of these containers and insert them here in your report.
 - b. What kind of materials can you recycle on them?
 - c. What is the color for every kind of recycling container?
13. Write the waste products under the correct container they belong to.

Newspaper – drink can – cardboard box – glass bottle – paper bag - shampoo bottle - milk carton - potato peelings – plastic bag – chicken pieces

Yellow container	Blue container	Dark green container	Light green container