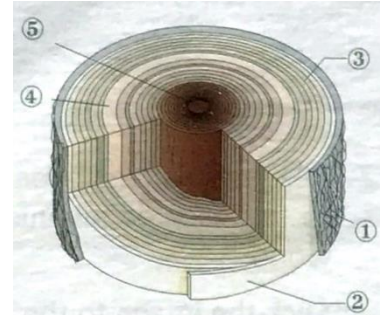


1.- In your notebook, label the parts of the tree trunk. Which parts would you use to make the following objects: a shelf, a box for fruit, a table, a picture frame.

Give reasons for your answers.



2.- Classify the following types of wood into softwoods and hardwoods: pine, beech, mahogany, poplar.

Name some of their applications.

3.- Look up on the Internet the relative densities of these types of wood: walnut, holm oak, chestnut, pine, olive, fir, cherry and oak.

- a) Draw a table with the types of wood in order of density. Indicate the density in g/m^3 .
- b) Find information about the acoustic conductivity of these types of wood.

4.- Answer the following questions with the characteristics of wood in mind. Write full sentences.

- a) Why is wood a good material for covering the walls of a house?
- b) What kind of wood do we get from deciduous trees?
- c) What is chipboard made from?
- d) What wood is used to make flooring, parquet and barrels?
- e) What tool can we use to make a hole in wood?

5.- What are the grain and knots in wood? Look up for information about different types of wood.

- a) Why are there fewer knots in hardwoods?
- b) What is the grain like in hardwoods?

6.- Name three types of metal that are used in the following industries: telecommunications, agriculture and machinery for manufacturing. Which metal is the most common?

7.- Put the following stages of the steel-making process in the right order.

1. Mixing the iron ore with coke and limestone in a furnace.
2. Making pig iron.
3. Mining the iron mineral.
4. Eliminating impurities, reducing carbon content and adding other elements.
5. Separating ore and gangue.

8.- Say which metals are used to make the following objects: the gears on a bicycle, a chisel, the hull of a ship, a drain cover, pliers, a metal lamp, the body panels on a car and a drill bit.

9.- Put the following metals in order according to whether they are good conductors of electricity: gold, silver, copper, aluminium.

10.- Explain the basic process of metal moulding.

a) What's the difference between moulding and shaping?

b) Draw the piece that the mould in the picture would make.

