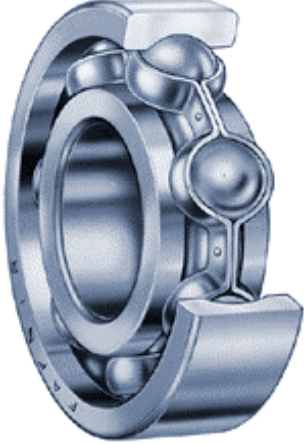



Lesson 6 – Steel processes and products

Task 1

Compare mild steel, medium carbon steel and high carbon steel:

- a) Mild steel is tough, medium carbon steel is tough_____ but high carbon steel it the tough_____
- b) Mild steel is ductile, medium carbon steel is _____ ductile but high carbon steel it the _____ ductile
- c) Mild steel is hard, medium carbon steel is hard _____ but high carbon steel it the hard _____
- d) The most brittle of them is_____
- e) The least brittle of them is_____
- f) Which steel would you use?





 <p>Ball bearing</p>	 <p>Axe</p>



Task 2

Mention 5 applications of stainless steel:

Task 3

What kind of steel would you use and why (mild steel, medium carbon steel, high carbon steel, high speed steel, stainless steel)?

Example	Answer
 Tanks for the storage of food	I would choose _____ _____steel because
 Kitchen sink	I would choose _____ _____steel because
 Hook	I would choose _____ _____steel because
 Washers	I would choose _____ _____steel because

 <p>Drill tools</p>	<p>I would choose _____</p> <p>_____steel because</p>
 <p>Steel structure</p>	<p>I would choose _____</p> <p>_____steel because</p>

Task 4

Read the following text:

By the 11th century BC it has been discovered that iron can be much improved. If it is reheated in a furnace with charcoal (containing carbon), some of the carbon is transferred to the iron. This process hardens the metal; and the effect is considerably greater if the hot metal is rapidly reduced in temperature, usually achieved by quenching it in water.

(Source: www.historyworld.net)

Which kind of heat treatment is the text referring to? Why?


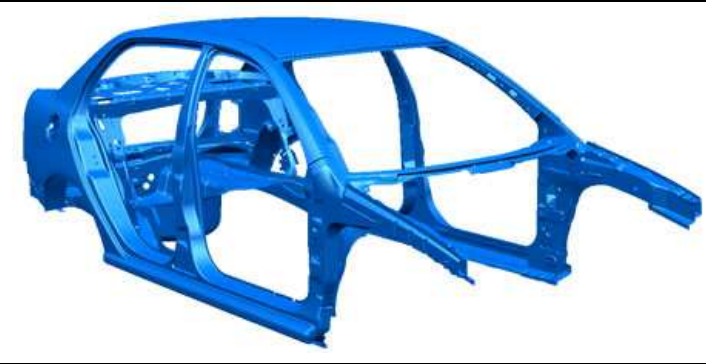




Task 5

Read the following text:

There are many different types of steel used in a car accounting for over 50% of the weight of a typical car. Steels are used for the car body, doors, bonnet, boot, engine, gearbox or suspension springs.

(Source: www.steeluniversity.org)

Write the names of the following parts of a car made usually from steel:

	
a.	b.
	
c.	d.
	
f.	g.