



WORKSHEET 21

SUBJECT: Basic technology

YEAR 10

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|---------------------------------|-------------------------|
| Strand | 3 |
| Sub Strand | Wood joints |
| Content Learning Outcome | Learning types of screw |

Wood joints

Learning Outcomes

By the end of this topic, students will know different types of metal . Screws

There are two types of screws, machine and wood screws. Both are made of metal; however the machine screw has a constant diameter and joins with nuts while the wood screw is tapered and grips to the actual wood surface. Screws are generally made from low to medium carbon steel wire, but other tough and inexpensive metals may be



substituted, such as stainless steel, brass, nickel alloys, or aluminum alloy. Screws come with many different styles of heads, the three most common are flat, round and pan.

Types of Screws:

- (i) The **countersunk** head are probably the most common. They do not protrude above the surface so can be filled and painted over and become invisible. This type of head is used in butt hinges and in metal where the head is to be flat with the surface. The heads have an included angle of 82°.
- (ii) These are used when a countersunk head is not required.
- (iii) These are similar to round head except the top of the head is flat, self-threading metal screws are a good example.

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Screws sizes are listed with the shank size first then the length. Shank sizes are denoted by numbers, the larger the number the larger the shank, the most

6, # 8 and # 10 so a medium size screw 1½" long would be



Flat



Round



Pan

REVIEW QUESTION

1. Sketch the following screws and write down their uses:
 - a. Countersunk
 - b. Round head
 - c. Flat head
 - d. Pan head

