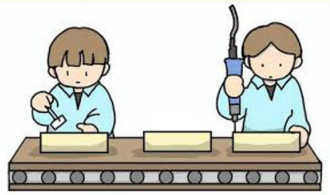
D&T - Year 1/2 - Cycle A - Mechanics
John Ericcson

What do I already know how to do?

- use a range of small tools, including scissors, paintbrushes and cutlery.
- safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.
- share their creations, explaining the process they have used.

I will know how to design and make a propeller boat inspired by John Erickson by:

- exploring and creating products using a propeller mechanism.
- using safe ways of cutting materials including a junior hacksaw with support.
- saying why I have chosen moving parts.
- with help, measuring and marking out to the nearest cm.
- cutting, shaping and scoring materials with some accuracy.
- assembling and joining materials and components in order to make a product.

accurate		**careful and precise.**
assemble		joining the parts together.
component		**a part of something. A part that combines with other parts to make the whole.**
hacksaw		a type of saw used to cut metal, with a tough, fine-toothed, short blade fixed in a frame.
mechanism		**parts of a machine.**
propeller		a device used to make an airplane or ship move forward. It has blades that spin around.

D&T- Year 1/2 - Cycle A - Mechanics
John Ericcson

John Ericcson

John Ericsson was born July 31st, 1803 in Sweden and died March 8th, 1889. He was a naval engineer and smart inventor. In 1836 he invented a special part for ships called a propeller. Before his invention, ships used big paddles to move through water, but it wasn't very fast or easy. John came up with the idea of using a spinning blade, like a fan, under the water. This helped ships go faster and turn better! His propeller was first used on a big ship called the USS Princeton a long time ago, and now, almost all ships use propellers like the one he invented.

Our brief: Design and make a propeller boat and see whether you can avoid an iceberg!

- **What shape will you choose for your boat?**
- **How will you attach it together?**
- **Can you measure accurately?**