

DESIGN A RESCUE DEVICE

Design and Technologies meet Swimming and Water Safety

Introduction:

Visit the following website to watch a clip about E.M.I.L.Y The Robotic Rescue Boat

<https://www.emilyrobot.com.au/#watch-the-video>

Challenge:

Your challenge is to design a rescue device that can rescue any swimmer in trouble!

Your device needs to meet the following criteria:

- Able to float on water and dive to reach the bottom.
- Able to be controlled by a human lifesaver standing on the shore.
- Able to travel at high speed to quickly reach a swimmer in danger.
- Has a piece of equipment for the swimmer to hold or be attached to when travelling back to shore/safety.
- Able to be charged/repowered.
- Has a unique feature (e.g. It can fly!)


View the following photos and websites to gather ideas:



<https://lifefi.lifesaving.com.au/>

<https://www.surflifesaving.com.au/uavs-surf-life-saving>

Design and label your device:



Share your learning!

Choose from the following presentations:

- Create your device using recyclable material from your home or building blocks
- Create a poster describing your device
- Create a PowerPoint presentation describing your device

In your choice of presentation, include the following information:

- The name of your device
- A picture of your device (can be drawn)
- The real-life size of your device
- What it is made of (e.g. metal, plastic, material)
- How it is controlled
- How it travels
- Its features – top speed, equipment/attachments etc.
- An example of a rescue it could complete