

COMMUNITY WATERWAY

Level 5 – 6

Connection to Victorian Curriculum:

Design and Technologies

Investigate how people in design and technologies occupations address competing considerations, including sustainability, in the design of solutions for current and future use (VCDSTS033)

Critique needs or opportunities for designing, and investigate materials, components, tools, equipment and processes to achieve intended designed solutions (VCDSCD038)

Health and Physical Education

Explore how participation in outdoor activities supports personal and community health and wellbeing and creates connections to the natural and built environment (VCHPEP113)

Introduction:

Life Saving Victorian have developed an ‘inflatable pool’ which allows swimmers to stay safe within an enclosed and patrolled space in an open water environment (such as a beach).



Visit the website to watch the video about Life Saving Victoria’s ‘inflatable pool’:

<https://lsv.com.au/the-inflatable-pool/>

Challenge:

Your challenge is to to design a new safety structure or equipment for your local waterway!

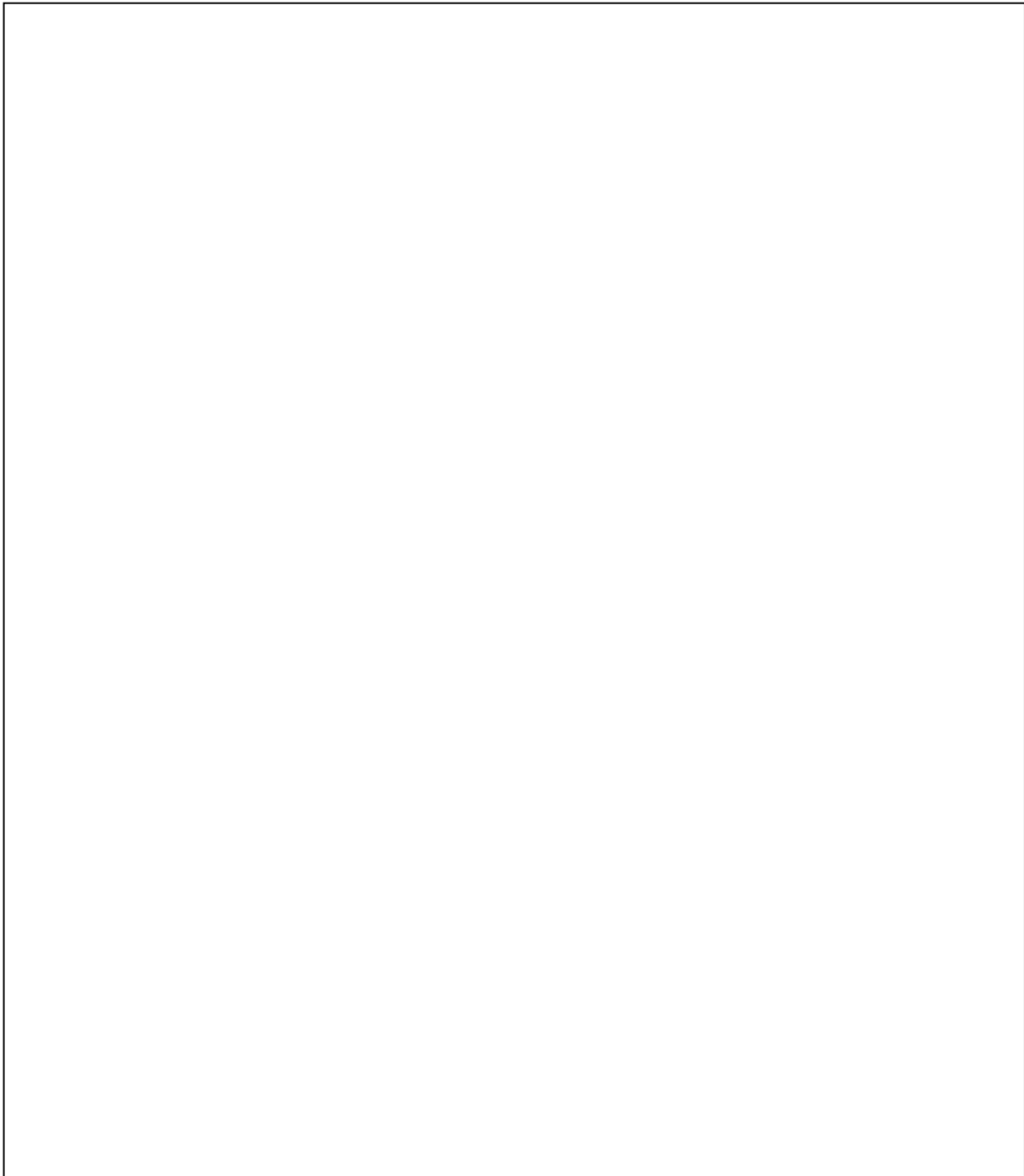
On Google Maps (<https://www.google.com/maps>) find a local waterway in your community.

You will now design a structure or piece of equipment which could be added to this local waterway to make it safe for swimmers.

Your structure/equipment needs to meet the following criteria:

- Able to stay in place safely when it is set up (e.g. anchored to the bottom of the waterway)
- Encourages the community to visit the waterway (does your structure have something fun and engaging?)
- Has a safe location for lifeguards to stand and patrol (think about being SunSmart too!)
- Safe for local flora and fauna (plants and animals)
- Accessible for everyone, including young children, families, grandparents and people with additional requirements such as mobility (i.e. wheelchair)

Design your safety equipment and structures:



Share your learning!

Print off a screenshot or draw your chosen waterway. You can then add your structure or equipment to this drawing and label each extra feature. You will also now need to present your structure!

Choose from the following presentations:

- Create your structure/equipment using recyclable material from your home or building blocks
- Create a poster describing your structure/equipment
- Create a powerpoint describing your structure/equipment

In your choice of presentation, include the following information:

- The name of your new structure/equipment
- A picture of your structure/equipment (can be drawn)
- The real-life size of your structure/equipment
- What it is made of (e.g. metal, plastic, material)
- What it is used for (e.g. safe swimming, for the community to sit on to view the waterway)
- How it is set up
- How the lifeguards will be able to patrol with this structure/equipment
- Its features – what makes it fun and interesting for the community?