

Lesson Plan

Victorian curriculum: Level 3/4

Science understanding – Biological sciences (VCSSU057/58)

Science Inquiry Skills – Communicating (VCSIS072)

Topic: Survival	Learning outcomes
	<p>Students will be able to:</p> <ul style="list-style-type: none">• Understand that all living things have observable features that have evolved over time to help protect them from the environment.• Recognise life cycles and the stages all living things experience.

Time required: 60 minutes

Classroom set up: Students can complete online or in classroom setting. Students to work individually or in pairs to read through and complete tasks below.

Extension: Students can design a predator that could threaten their new species of fish they have created.

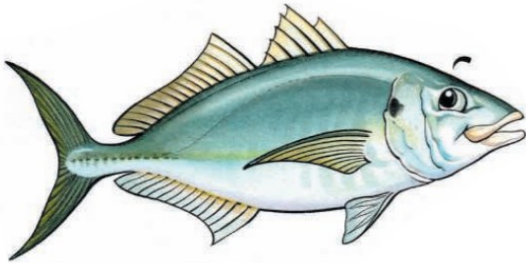
Tasks:

- Fish features puzzle
- Life Cycles
- Design your own species



What is a fish?

Fish are vertebrates like humans, which means they have a backbone, but unlike us they are cold blooded. Fish have gills, fins, and scales to help them live underwater.

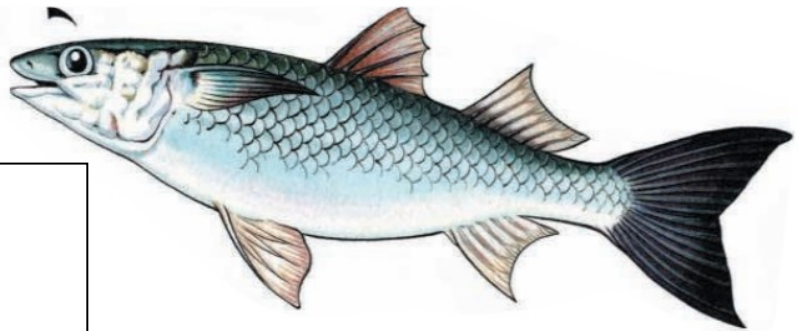


Species: Silver Trevally

Size: 35-60cm

Habitat: Coastal ocean

Food: Crustaceans, worms and molluscs



Species: Yellow eye Mullet

Size: 30-40cm

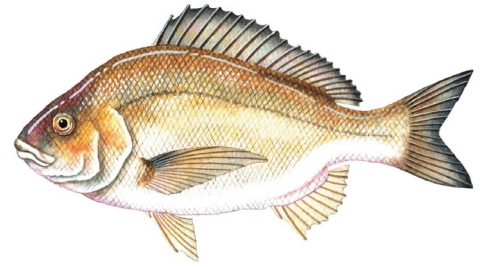
Habitat: Bays and estuaries

Food: Crustaceans, molluscs,
fish and plants.

The gills are used for breathing, the fins help them move around and scales protect their body from the environment they live in.

There are approximately 33,000 species of fish in the world, each with a unique, size, shape and colour. The term species refers to the type of fish e.g. Silver Trevally and each have specific adaptations to help them survive in their habitat.

Fish puzzle



Step 1:

Visit: [Fishcare Puzzle](#)

and complete the online puzzle!

Step 2: Use the puzzle to help complete the activity below.

Using the following words

Pectoral Fin

Mouth

Caudal Fin

Gills

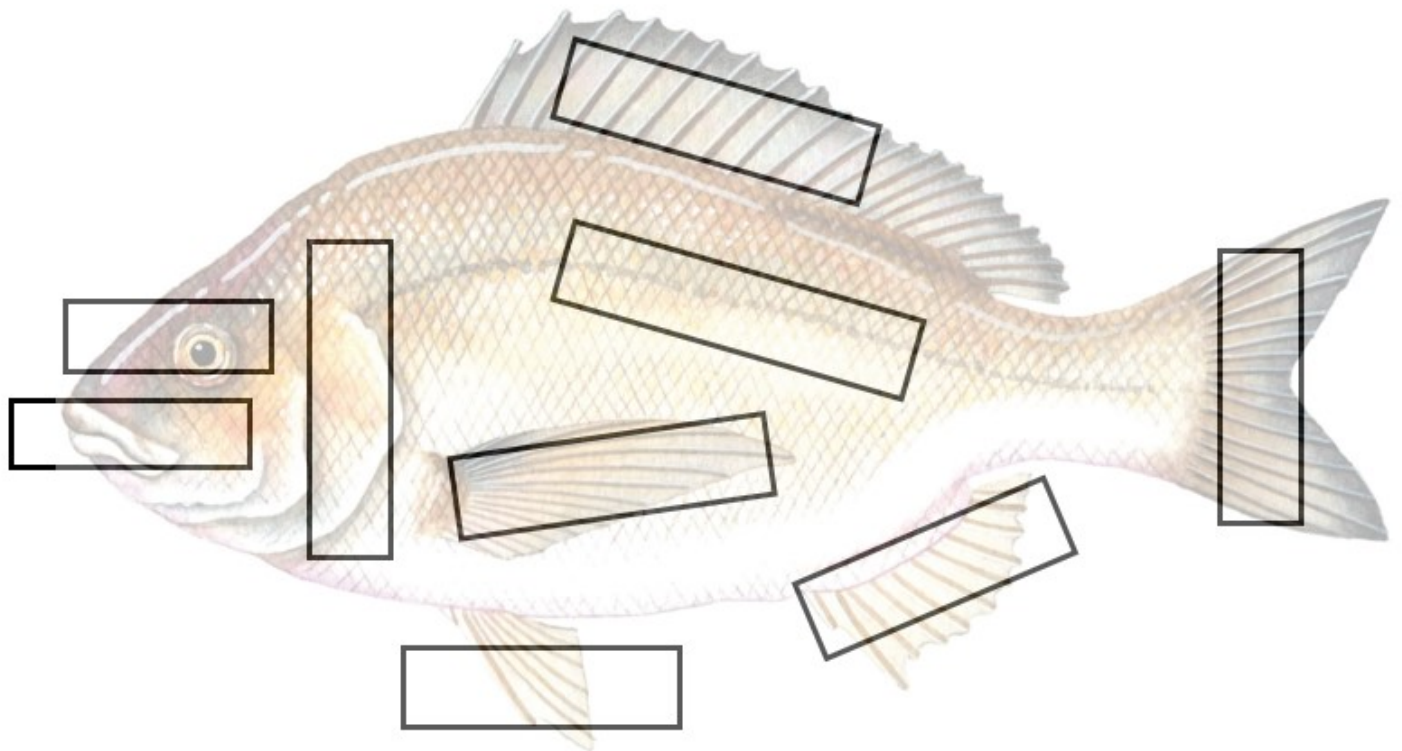
Eye

Dorsal Fin

Lateral Line

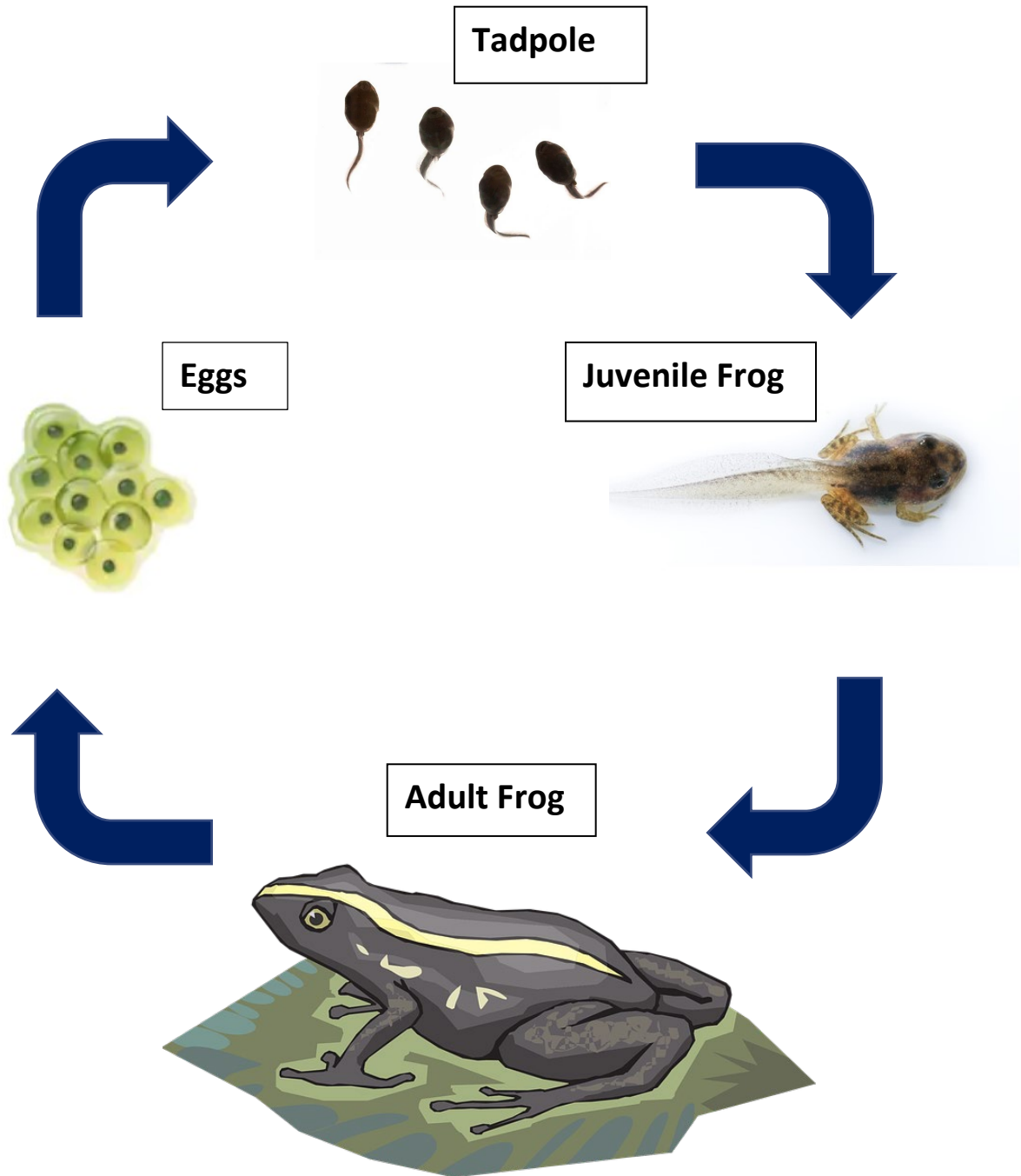
Anal Fin

Pelvic Fin



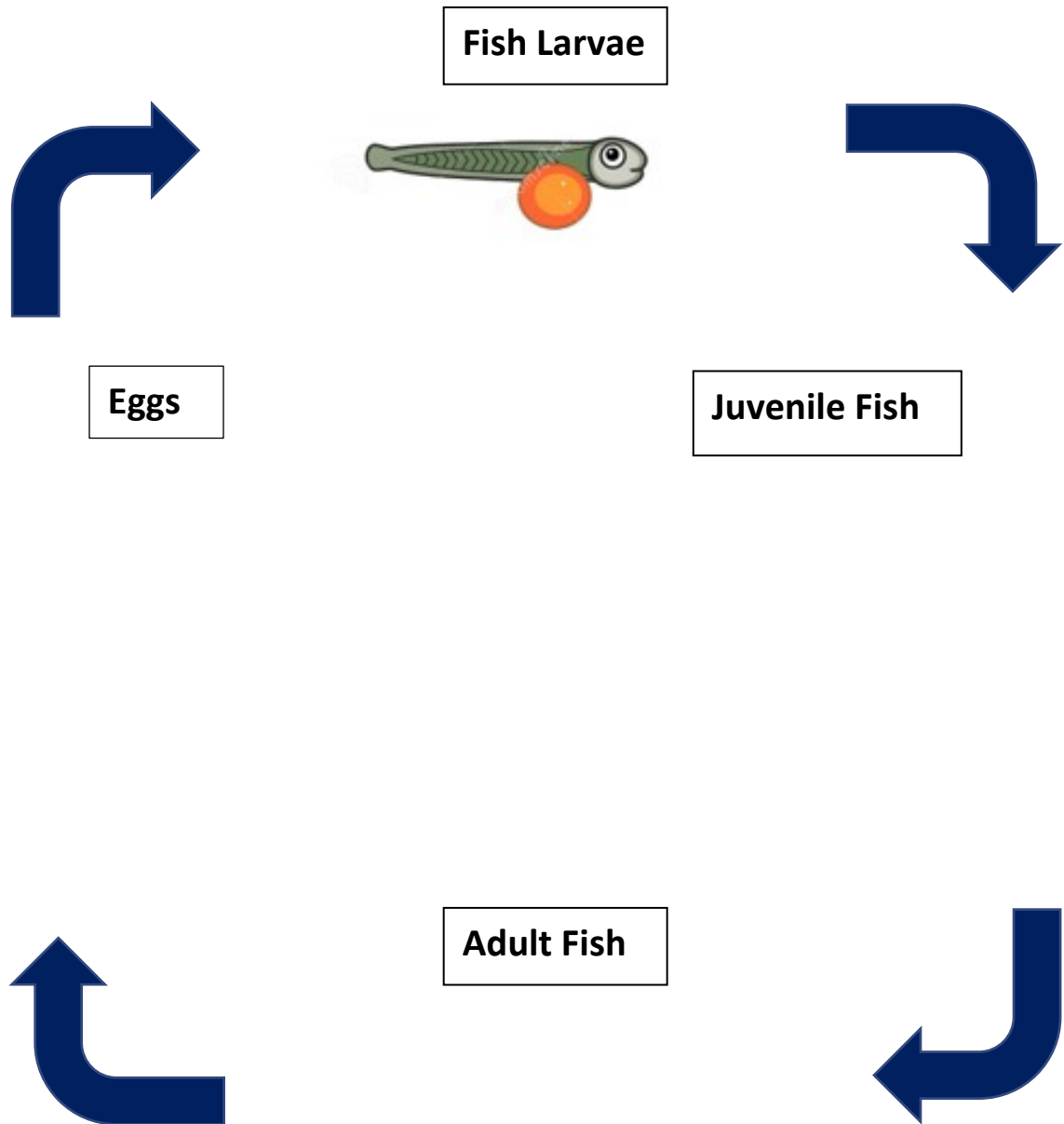
Life cycles

All living things have a life cycle which shows the different stages that a plant or animal goes through as they grow. Each stage looks completely different to the rest and often has a different name.



Your turn!

Draw the life cycle of a fish below, we've started with "Fish Larvae" – the life cycle stage that develops from an egg.



Survival

Plants and animals have learnt to live in all kinds of underwater environments; however, it has taken them million of years to adapt and change to help them survive.

They can live in freshwater like rivers...

Lakes



Dams

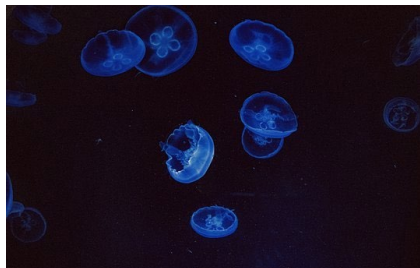


And the ocean



Some live-in rivers up high on mountain tops!

Others live down
in the deep, dark
ocean....



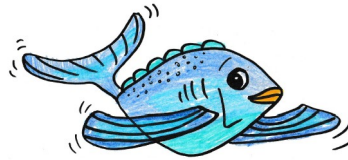
Design your own species

On an A4 piece of paper design your own species of fish

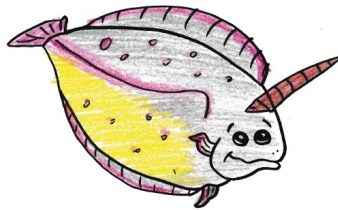
Get as creative as you like with pens, pencils and texters to design a fish that has special features to help it survive in its environment.

Name your species after its features, for example.

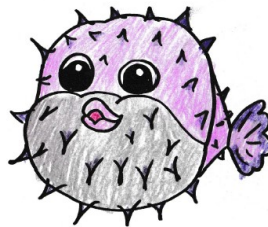
The Oceanic Paddler



Brown-spine flat fish

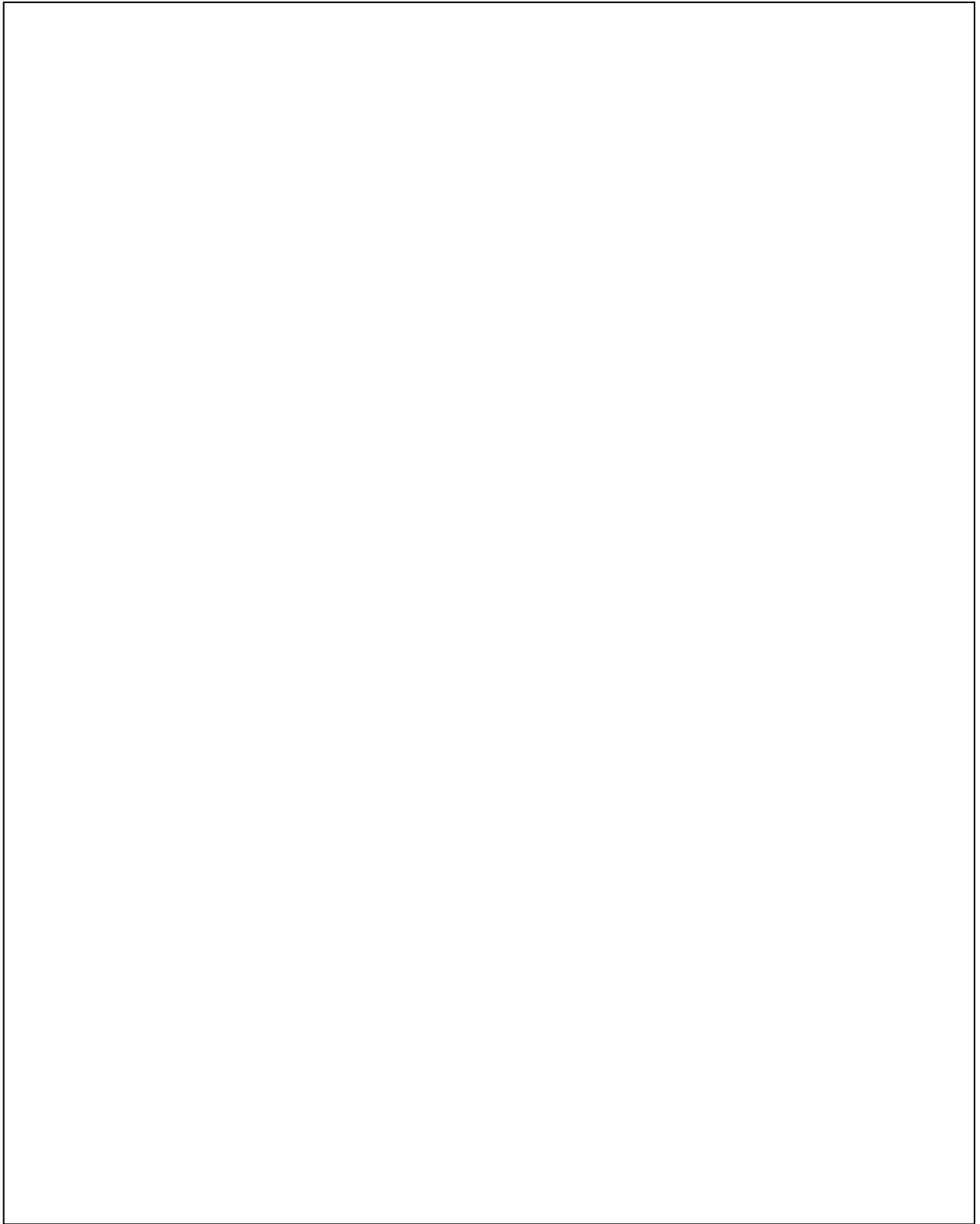


Purple puffing bloat fish



Explain what **special features** help your new species survive in its environment?

You can your new fish species here!



Extension

Draw your predator to the fish species below

