

# Challenge Activities

## Ultimate Survivor - Page 1

### Challenge

How would humans have to adapt?

### Ultimate Reef Creature

Would an animal that has a shark's body, jellyfish tentacles and stonefish camouflage, be the ultimate survivor?

Based upon the adaptations of Great Barrier Reef creatures, create the 'ultimate reef creature', one that possesses the ultimate adaptations for life on a coral reef. List your creature's adaptations in the boxes below, then draw what your creature would look like.

Animal Species Name:

Reproductive Adaptations:

Behavioural Adaptations:

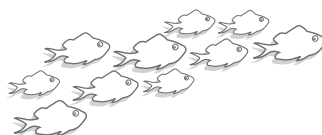
Structural Adaptations

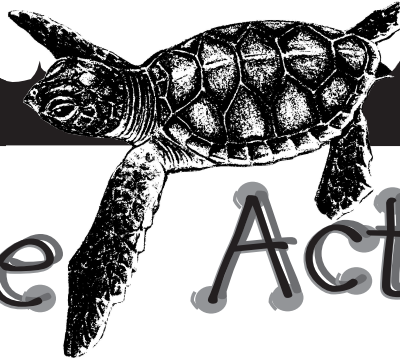
Defence Adaptations:

Body Shape and Movement:

Feeding Adaptations:

Draw your creature here.





# Challenge Activities

## Ultimate Survivor - Page 2

### Animal Adaptation Profile

Choose your favourite reef creature then tick the adaptations your chosen Reef creature possesses.

Reef creature name:

#### ● Behavioural Adaptations

Living Arrangements

- Lives alone    Lives in schools or groups    Lives with another animal, where both animals benefit (symbiotic relationship)  
 Is dependent upon another animal to live without giving anything back (commensalistic relationship)

#### ● Reproductive Adaptations

- Courtship dances/rituals (eg leopard shark, rock cods, groupers etc)    Guarding a clutch of eggs (eg triggerfish)  
 Spawning (eg most reef fish)    Egg laying outside the reef (eg turtles and birds)    Egg laying on the reef (eg damselfish attach eggs to rocks, molluscs, crustaceans etc)    Giving birth to live young (eg black tip reef sharks)  
 Laying eggs in the parent's pouch or uterus, then producing live young (eg seahorses and tiger sharks)  
 Budding (eg corals)    Regeneration (eg seacucumbers, seastars)    Sex changes (eg parrot fish, groupers, coral trout and wrasse change from female to male, while clown fish change from male to female)

#### ● Structural Adaptations

Feeding

- Strong beak to scrape hard surfaces    Tubular mouth to suck in small food    Small mouth and large eyes to prey upon plankton or algae  
 Large mouth and teeth    Rasping tongue (radulae) to scrape algae off rocks  
 Opening to take in mouths of water and siphon out food    Tentacles to grab food from the water column  
 An ability to envelope food with the stomach then suck it all back through the mouth

#### ● Defence

- Toxins in body tissue or spines    Hard shell    Stripes or false eyespots    Warning colouration  
 Colour/camouflage    Speed    Venomous bites    Size    Hiding

#### ● Body Shape and Movement

- Fusiform    Rod    Depressed    Compressed

