



## Ultimate Survivor

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**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.





## Ultimate Survivor

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### 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 with another animal, where both animals benefit (*symbiotic relationship*)
- Lives in schools or groups
- 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*)
- Spawning (*eg most reef fish*)
- Egg laying on the reef (*eg damselfish attach eggs to rocks, molluscs, crustaceans etc*)
- Budding (*eg corals*)
- Laying eggs in the parent's pouch or uterus, then producing live young (*eg seahorses and tiger sharks*)
- Sex changes (*eg parrot fish, groupers, coral trout and wrasse change from female to male, while clown fish change from male to female*)
- Guarding a clutch of eggs (*eg triggerfish*)
- Egg laying outside the reef (*eg turtles and birds*)
- Giving birth to live young (*eg black tip reef sharks*)
- Regeneration (*eg seacucumbers, seastars*)

### Structural Adaptations

#### Feeding

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

#### Defence

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

#### Body Shape and Movement

- Fusiform
- Rod
- Depressed
- Compressed

