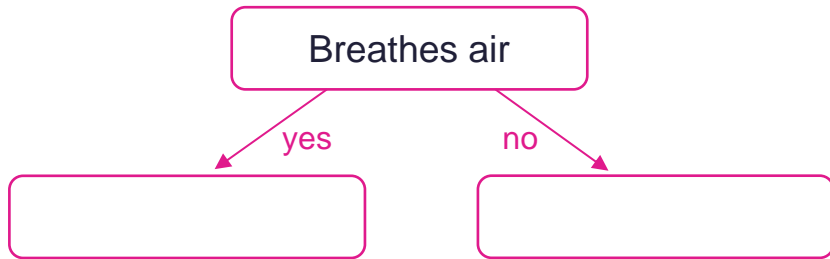


Dichotomous Keys

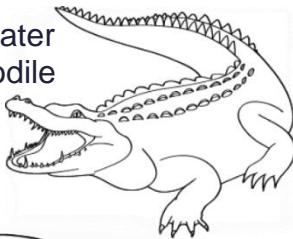
Key type 1 - Couple statements

- | | |
|------------------------|----------|
| 1. A. Breathes air | Go to #2 |
| B. Doesn't breathe air | Go to #3 |

Key type 2 - Graphical Representation



Saltwater Crocodile



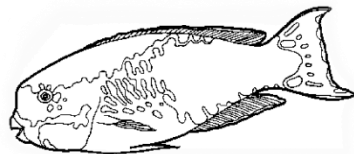
Blue Spotted Stingray



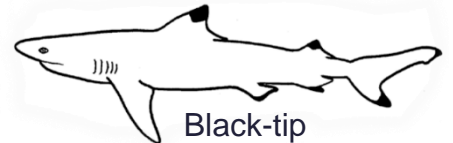
Dugong



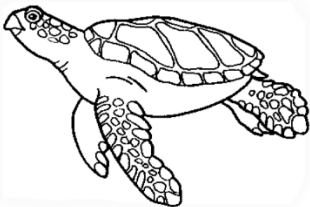
Shovelnose Ray



Parrotfish



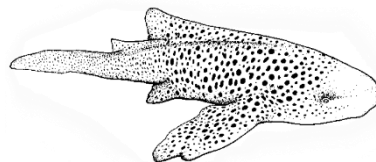
Black-tip Reef Shark



Green Sea Turtle



Seahorse



Leopard Shark



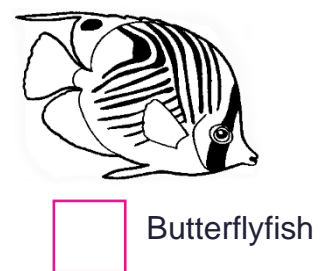
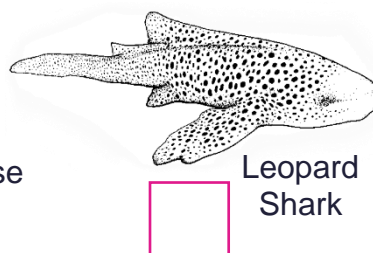
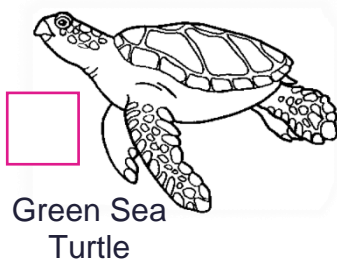
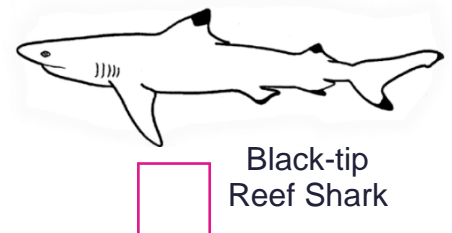
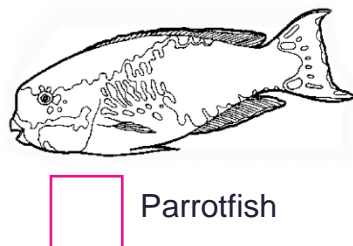
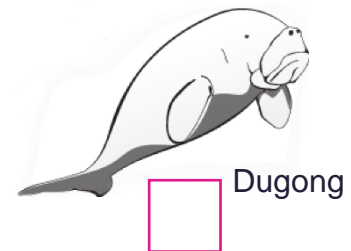
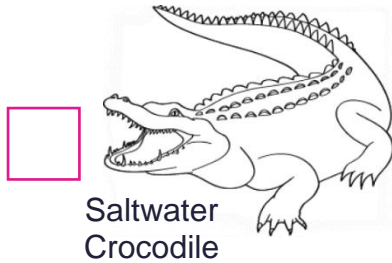
Butterfly Fish

Animal Features

Using the animal clues below, complete the two dichotomous keys on the following pages. As you key out an animal, record its statement number (e.g. 2a or 6b etc.), or put a tick in the box next to its picture.

Animal Clues:

1. Sharks and rays have a cartilaginous skeleton.
2. A *spiracle* is an opening behind the eye of bottom-dwelling sharks and rays.
3. Seahorses are bony fish without scales.
4. Parrotfish teeth are fused to form a beak.
5. All rays have gills located underneath their body.
6. Only stingrays have barbs on their tails.
7. All reptiles and mammals have lungs.
8. All reptiles are cold blooded.



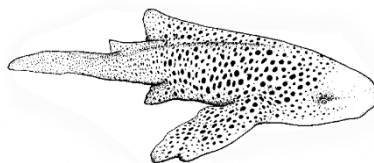
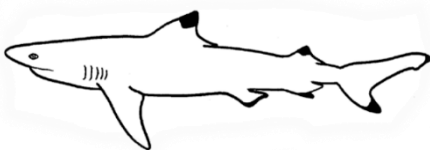
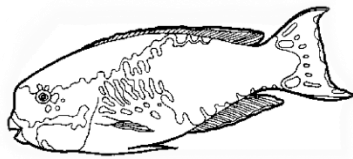
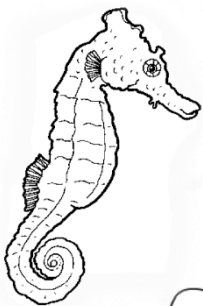
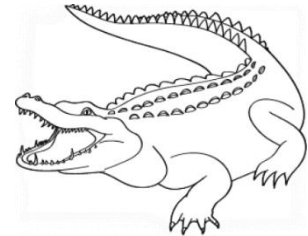
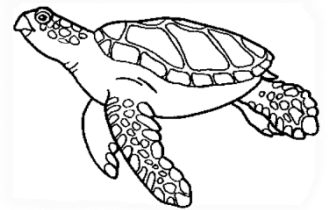
Dichotomous Key

Challenge 1

Coupled statements

Using the animal clues and names provided on page 2, place each of the animals in their correct place in the key below (continues to next page).

1. A. Has lungs Go to #2
 B. Lungs absent Go to #5
2. A. Is warm-blooded _____
 B. Is not warm-blooded Go to #3
3. A. Flippers present _____
 B. Flippers absent Go to #4
4. A. Legs present _____
 B. Legs absent Go to #5
5. A. Skeleton made of bone Go to #6
 B. Skeleton made of cartilage Go to #8



Dichotomous Key

Challenge 1- continued

Coupled statements

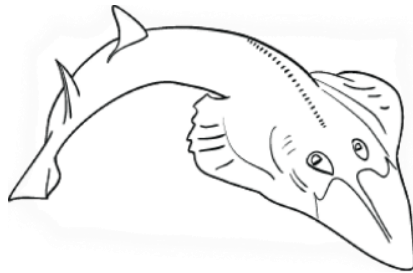
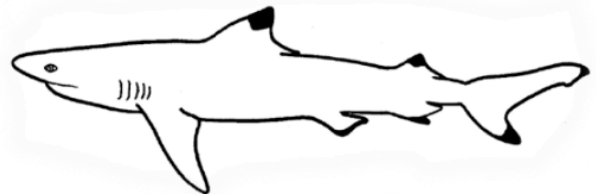
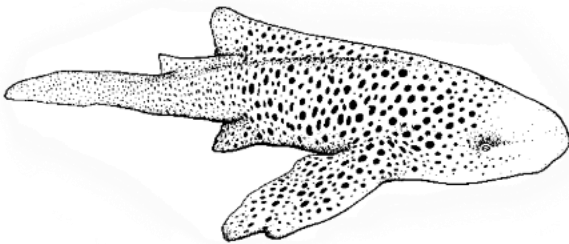
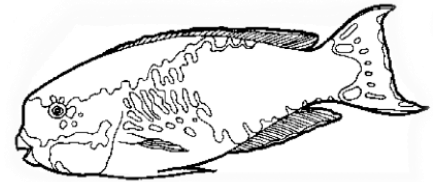
- 6. A. Scales present Go to #7
 B. Scales absent _____

- 7. A. Teeth fused to form a beak _____
 B. Teeth not fused _____

- 8. A. Gills located under head Go to #9
 B. Gills located on side of body Go to #10

- 9. A. Barbs present _____
 B. Barbs absent _____

- 10. A. Spiracles present _____
 B. Spiracles absent _____



Dichotomous Key

Challenge 2

Graphical representation – Using the animal clues and names provided on page 2, write the name of each animal in their correct place in the key below.

