There are no prizes
for guessing why this is called
a blob fish! The blob fish doesn't
move much. Instead, it sits and waits
for its food to drift by.

BLOB FISH FACTS

SIZE: up to 30 cm across HOME: deep waters off Australia EATS: any small morsels that float by

Scientists don't know much about the blob fish – except that it's under threat. It's inedible, but trawlers net it while fishing for crabs and lobsters.

It certainly doesn't look very cheerful, does it?

WEIRD OR WHAT?

The blob fish's jelly-like flesh is slightly lighter than water.
That means the fish can float just above the seabed without using up any energy.

Rosy-Lippeel Batfish

Look at this glamour puss! The rosy-lipped batfish isn't a good swimmer, but has modified fins that allow it to walk across the seabed. They make it look like it has legs!

WEIRD OR WHAT?

The batfish has a lure of frilly flesh on its forehead that tempts prey close enough to eat.

ROSY-LIPPED BATFISH FACTS

SIZE: up to 36 cm long HOME: off Cocos Island, Costa Rica EATS: small fish, crustaceans (shrimps, molluscs, crabs) The fish's red
'lipstick' helps other
rosy-lipped batfish
recognize it at
spawning time.

Froglish

Frogfish
live in warm,
shallow seas. There
are about 60 different
species. Some blend
in with the seabed
and some with their
colourful coral-reef
surroundings.

WEIRD OR WHAT?

Some frogfish can change colour to match their surroundings.

Like batfish,
frogfish have
leg-like pectoral fins.
They use these to crawl
slowly across the
seabed.

Most frogfish
are bottom-dwellers. This
shaggy-looking beast is a hairy
frogfish! It feeds on flounders
and other flatfish.

FROGFISH FACTS

SIZE: up to 30 cm long HOME: tropical and subtropical waters worldwide EATS: crustaceans, fish (including other frogfish)

New frogfish species
are still being found. This one,
the psychedelic frogfish,
was discovered off the coast of
Indonesia in 2008. Its pattern
matches the stripy corals in
which it lives.

STONEFISH

STONEFISH FACTS

SIZE: up to 35 cm long HOME: shallow, tropical waters of the Indo-Pacific EATS: small fish, shrimps Is it a piece
of weed-covered
rock, or a fish? Stonefish
are disguised to look like
stones lying on the seabed. This
camouflage hides them from
prey and predators, such as
bottom-feeding sharks
and rays.

Stonefish have
another defence, too –
a row of needle-like spines
on their back that can inject
deadly venom.

WEIRD OR WHAT?

Stonefish venom can kill a person within two hours – unless he or she is treated in time with antivenin.

This fish isn't
called 'sarcastic'
because it makes harsh
remarks. Sarcastic originally
meant 'tearing of flesh'. Sarcastic
fringeheads are certainly very
aggressive. They defend
their territory from other
fringeheads by tussling
with their mouths.

SARCASTIC FRINGEHEAD FACTS

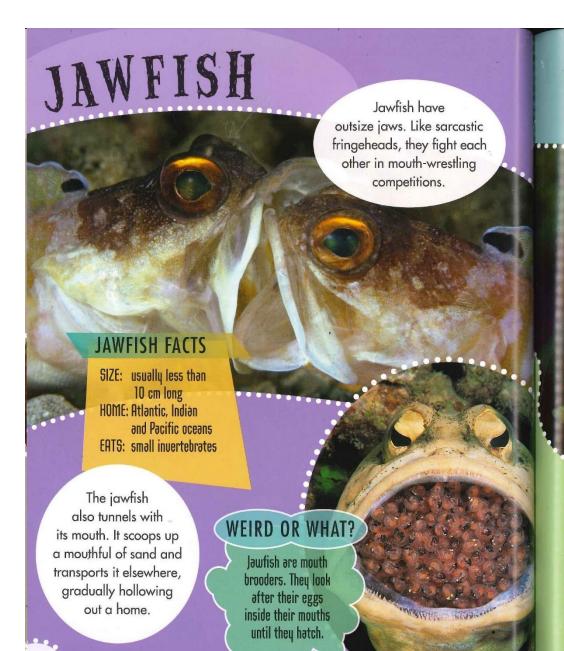
SIZE: up to 30 cm long (usually around 15 cm) HOME: off the Pacific coast of the USA

EATS: small crustaceans

WEIRD OR WHATE

The fringehead squashes itself into a crevice but pops out to ambush prey. The hidey-hole also protects its scaleless body.

If it can't find a rocky crevice, a sarcastic fringehead may set up home in an empty snail shell or even an old bottle!



Leafy Sea Dragon

Now you see it; now
you don't. The leafy sea dragon
is named for the flaps of skin all over its
body that look just like seaweed. They
provide brilliant camouflage!

WEIRD OR WHAT?

Female sea dragons lay their eggs in a pouch on the male's tail. He looks after them until they hatch.

LEAFY SEA DRAGON FACTS

SIZE: up to 24 cm long HOME: off the coast of Australia EATS: shrimps, sea lice, fish fry

Sea dragons are
relatives of sea horses.
They have a mouth like a
drinking straw for sucking up
tiny shrimps.

LIONFISH

Lionfish live in coral reefs.
They're named for their impressive
'mane' of stripy spines.

These spines

may look pretty, but

they're very dangerous.

Each one is coated in

venomous mucus. You

wouldn't want to step on

one of these while

swimming!

LIONFISH FACTS

SIZE: around 30 cm long
HOME: the Pacific Ocean, but they've
recently spread to the Caribbean
and Mediterranean
EATS: small fish, crustaceans

WEIRD OR WHAT?

Lionfish are pests in parts of the Caribbean. They prey on native fish and have no natural predators. Fishermen who catch them and hand them in are paid a reward!

Lionfish
sometimes herd their
fish or shrimp prey
into a corner before
tucking in.

PARROTFISH

This fish
has a beak like a
parrot, but it can't talk!
Parrotfish use their beaks
to scrape algae off rocks
and corals.

Parrotfish
change colour
at different stages
in their development.
Most parrotfish start
out female and later
change into males.
Imagine that!

PARROTFISH FACTS

SIZE: usually 30-50 cm long
(but some species top 1 m)
HOME: tropical and subtropical
shallows worldwide
EATS: algae, coral polyps

WEIRD OR WHAT?

Some parrotfish wear
pujamas! At night they wrap
up their body in a coating
of mucus. Scientists think it
makes them more difficult
for eels and other hunters
to sniff out.



PUFFERFISH

PUFFERFISH FACTS

SIZE: up to 90 cm long (but the smallest species is just 2.5 cm)

HOME: usually tropical waters EATS: algae, invertebrates (eg sponges, sea urchins)

AFTER

WEIRD OR WHAT?

In Japan the poisonous flesh of the pufferfish - fugu - is a delicacy. Only trained chefs can prepare it. Pufferfish
rely on sight to
find their food. They
can move each eye
independently.

Pufferfish can

puff up like a balloon.

This defence makes them too

much of a mouthful for most

predators - especially since

many species are covered

in prickles. They're

poisonous, too!

OCEAN SUNFISH

The ocean
sunfish is no beauty, but
it is the world's heaviest bony
fish. It starts life measuring
just a millimetre or so, but
eventually weighs about
1,000 kilograms.

autic

#11466 ·

WEIRD OR WHAT?

Ocean sunfish females produce more eggs than any other vertebrate – as many as 300 million at a time! How would you like that many brothers and sisters?

OCEAN SUNFISH FACTS

SIZE: usually up to 1.5 m HOME: open ocean, tropical to temperate waters EATS: jellyfish, fish, crustaceans The sunfish is named for its habit of 'sunbathing' at the surface. It may do this to encourage seagulls, which land and pick off parasites!

OARFISH

The four
species of oarfish are
true 'monsters of the deep'.
This giant oarfish is the world's
longest bony fish. It usually grows
to about 9 metres, but there
are reports of sightings
of fish as long as
17 metres.

WEIRD OR WHAT?

Myths about sea serpents might be based on sightings of oarfish.

OARFISH FACTS

Oarfish spend most of their time in deep water. They sometimes swim in an upright pose. SIZE: usually 9 m long
HOME: deep waters of tropical
and subtropical seas
EATS: zooplankton (eg tiny
crustaceans), jellyfish,
squid, small fish

PELICAN EEL

The pelican eel
is a deep-sea weirdo. It's
named for its elastic mouth, which
resembles a pelican bird's
stretchy throat.

PELICAN EEL FACTS

SIZE: about 1 m long HOME: deep waters of tropical and subtropical seas EATS: small crustaceans

WEIRD OR WHAT?

The pelican eel produces red flashing lights from its tail, probably to attract prey in the gloomy deep where it lives.

The fish's
gaping mouth is about
25 centimetres long.
The rest of its body
is snake-like.



SWORDFISH, MARLIN AND SAILFISH

Marlins, swordfish and sailfish are three of the fastest hunters in the ocean. They can power through the water at speeds of about 110 kilometres per hour.

WEIRD OR WHAT?

The sailfish can change colour depending on its mood.

sailfish

This sailfish is feeding on sardines.

SAILFISH FACTS

SIZE: up to 3.5 m HOME: warm and temperate waters worldwide EATS: fish

These fish hunt by sight. Marlins and swordfish even have a special organ next to their eyes that heats their eyes and brain, helping them to see better.

> Game fishermen like the challenge of trying to catch marlins. Luckily, this one seems to have got away!

SWORDFISH FACTS

SIZE: up to 4.5 m HOME: warm and temperate waters worldwide EATS: squid, fish

marlin

MARLIN FACTS

SIZE: up to 6 m HOME: warm and temperate waters worldwide EATS: fish

BASKING SACTION OF THE PARTY OF

and Indian oceans EATS: zooplankton

With its gigantic, gaping mouth, the basking shark is a terrifying sight! However, this shark is a gentle giant, feeding on tiny zooplankton.

> The basking shark is a filter feeder. When it closes its mouth, it forces water out through its gills. The aill rakers sieve out any plankton prey.

WEIRD OR WHAT?

Only one other fish is larger than the basking shark - the whale shark.

gill raker

HAMMERHEAD SHARK

Hammerheads have to be the strangest-looking sharks!

HAMMERHEAD SHARK FACTS

Having their eyes at the tips of the hammerhead gives the sharks excellent all-round vision.

SIZE: 90 cm-6 m depending on species HOME: temperate and tropical waters worldwide EATS: fish (eg rays), crustaceans

WEIRD OR WHAT?

Scalloped hammerheads are the only sharks to form schools. As many as 500 may swim together!

ARCHER FISH

No fish can match the archer fish at target practice!

WEIRD OR WHAT?

The archer fish can hit prey from a distance of 1.5 metres.

When
the fish spots a
creepy-crawly on an
overhanging plant, it
shoots a jet of 'spit' at it.
Gotcha! The prey falls
into the water and is
gobbled up by the
fish.

ARCHER FISH FACTS

SIZE: 5-10 cm (but one species grows up to 40 cm long) HOME: fresh and coastal waters around the Indo Pacific EATS: insects, spiders

FLYING FISH

Is it a bird or a fish? Flying
fish have a neat trick for escaping marine
predators – they leave the water! Swimming
at top speed, the fish can break through the
surface and glide through the air.

FLYING FISH FACTS

SIZE: up to 45 cm long HOME: tropical and subtropical waters worldwide EATS: plankton

WEIRD OR WHAT?

A flying fish can cover a distance of 180 m in a single glide.

The fish glide on stiff, outstretched pectoral fins. Their average gliding speed is about 16 kilometres per hour.

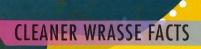
CLEANER WRASSE

Fish can't brush
their teeth, like you can.
Instead, they use cleaner
wrasse. Cleaner wrasse are
the refuse collectors of
the coral reef.

WEIRD OR WHAT?

A cleaner wrasse may clean around 50 fish an hour.

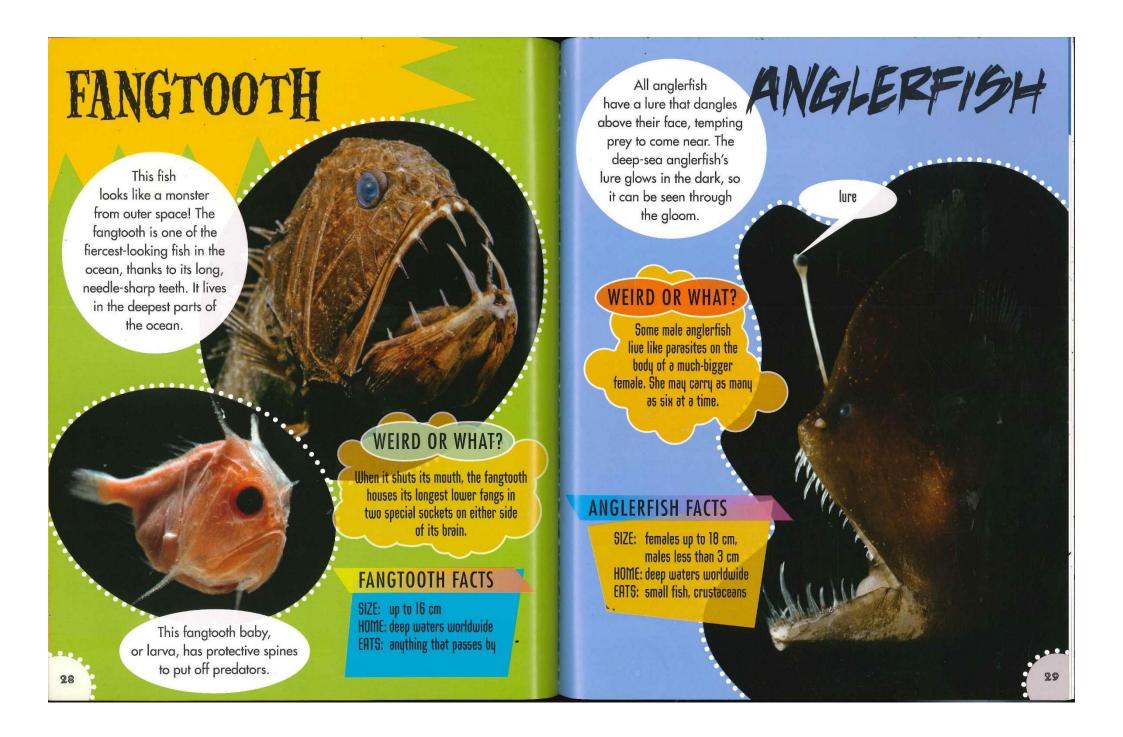
Look closely inside this grey reef shark's mouth – a fearless cleaner wrasse is cleaning its teeth!

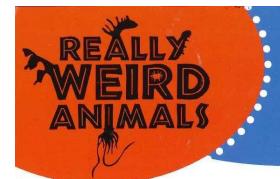


SIZE: up to 20 cm long HOME: tropical reefs EATS: parasites, dead skin Cleaner
wrasse feed
on parasites
and dead skin.
Fish that need
cleaning recognize
the wrasse by
their stripy
bodies.

They are
also attracted by
a special dance
that the wrasse
perform – spreading out
their tail fins and waving
their bottoms up and
down! Reef fish will even
queue up to take their
turn with a cleaner
wrasse.

This moray
eel is at a wrasse
'cleaning station'. Three
wrasse and two cleaner
shrimps are giving its
skin a spring clean.





GLOSSARY

alga (plural algae) One of a group of living things that include seaweeds and some plankton.

antivenin A chemical that can stop the effects of venom, such as paralysis.

camouflage Colours or patterns that help an animal to blend in to the surrounding environment to avoid being seen by predators, prey or both.

coral A tiny marine animal related to sea anemones. Its soft body, known as a polyp, has a circle of tentacles.

crustacean An animal with two-parted legs and a segmented body covered by a hard outer skeleton (an exoskeleton). Crabs and shrimps are crustaceans.

fry Newly-hatched fish.

gill The organ that allows fish and some other underwater animals to breathe.

inedible Describes something that cannot be eaten or is not good to eat.

invertebrate An animal that has no backbone. Some invertebrates, such as crabs, protect their bodies with a hard outer skeleton, called an exoskeleton. Others, such as jellyfish, have soft bodies.

lure Something that is used to tempt – for example to bring prey animals near.

modified Altered or changed.

mollusc A soft-bodied animal with no backbone and, often, a shell. Snails and mussels are molluscs.

mucus A slimy substance that an animal secretes.

parasite A living thing that does not produce or find its own food, but instead lives on a host that it relies on for food.

pectoral fin One of the pair of fins on either side of a fish's head.

plankton Microscopic plants, algae and animals that float in the oceans. Animal plankton is known as zooplankton.

predator An animal that hunts and kills other animals for food.

prey An animal that is hunted and killed by another animal for food.

reef A stony structure that forms in warm, shallow waters, built from the old exoskeletons of tiny corals.

spawning Laying eggs.

species One particular type of living thing. Members of the same species look similar and can reproduce together in the wild.

subtropical Describes the regions of the earth that lie between tropical and temperate areas.

temperate Describes the two regions of the earth that lie between the tropics and the poles, where the climate is warm in summer and cool in winter.

tentacle A slender, flexible organ used to sense, grab or move around.

territory The area that an animal defends against other animals, usually of the same species.

trawler A fishing boat that catches fish and other sea creatures by dragging a net over the seabed.

tropical Describes the warm part of the world near to the equator (the imaginary line that circles the middle of the earth).

venom A chemical that is injected into another animal to paralyze it.

vertebrate An animal that has a backbone.