

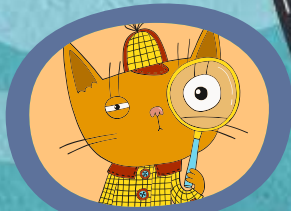
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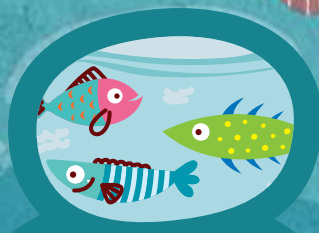


TIME PASS! THE MAGAZINE

facts about
the X-Ray
Tetra fish



WHAT IS
RADIOACTIVITY?



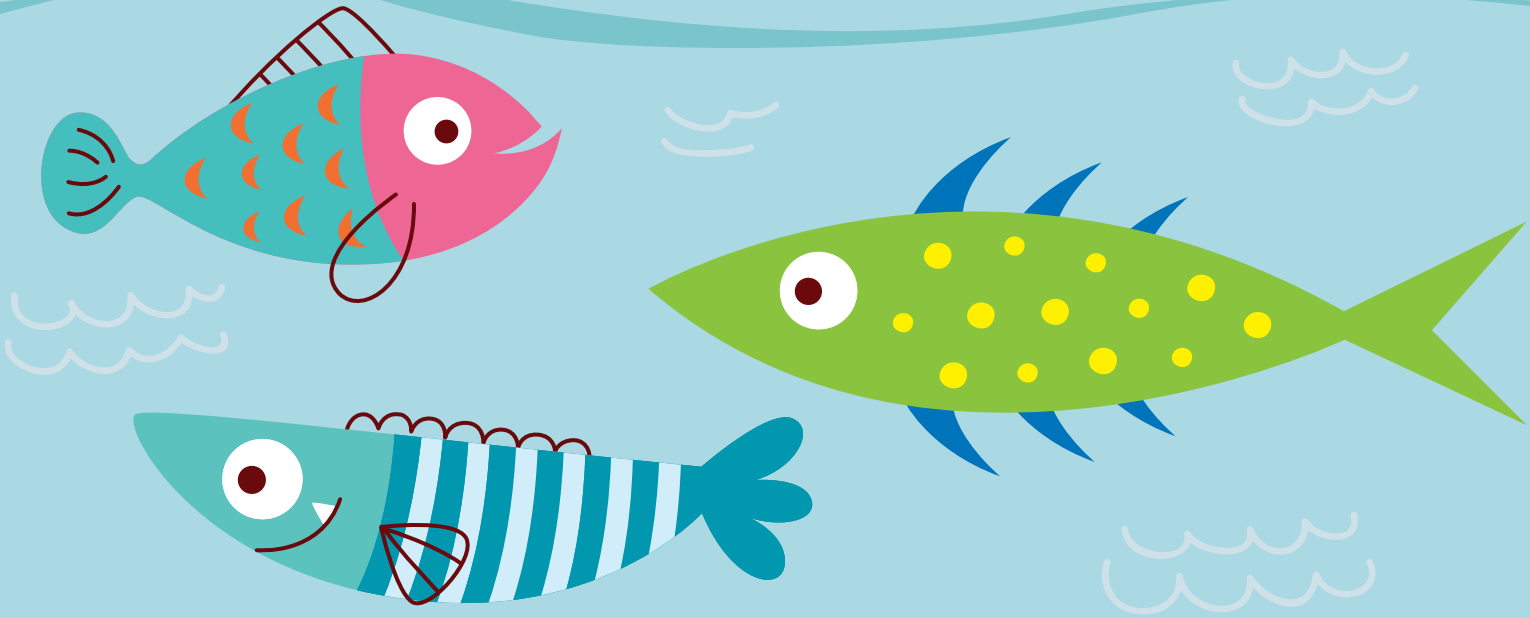
THE THREE
FISH AND
THE FISHERMEN



WHY DO FISH
HAVE SCALES?

FOLKTALE

Three fish and the fishermen



A long time ago, three fish used to live in a pond along with their families. Their names were Agni, Pratyu and Yadbha. Agni had a practical mind and used to plan all her actions in advance. Pratyu was also quite practical and a good advisor. Yadbha was the youngest of them. She was lazy and did not like working. She had a laid back attitude.

One day, a group of fishermen came to the pond where these three fish lived. They talked among themselves, "This pond has quite a lot of fish. Let us come here tomorrow with our nets and catch them."

This conversation of the fishermen was overheard by Agni. She quickly gathered all the fish of the pond and told them what she had overheard. She said, "We must move to another pond as soon as we can in order to save our lives." All the other fish including

Pratyu agreed with Agni. Only Yadbha did not like the idea. She said, "Why should we leave our pond and go somewhere else? We are not cowards. Maybe the fishermen do not come here at all. And even if they do, we will figure out a way of not getting caught. Anyway, one day, everyone has to die. So there is no point in fearing death."

Agni and Pratyu did not agree with Yadbha's ideas and they proceeded to carry out their original plan. They went to another pond with their families and friends.

The next day, the fishermen came to the pond with their large nets. They cast their nets and caught a large number of fish living in the pond. Among these fish were Yadbha and her family too. Agni, Pratyu and their families were safe in another pond. This is why it is said that we must plan our future intelligently.

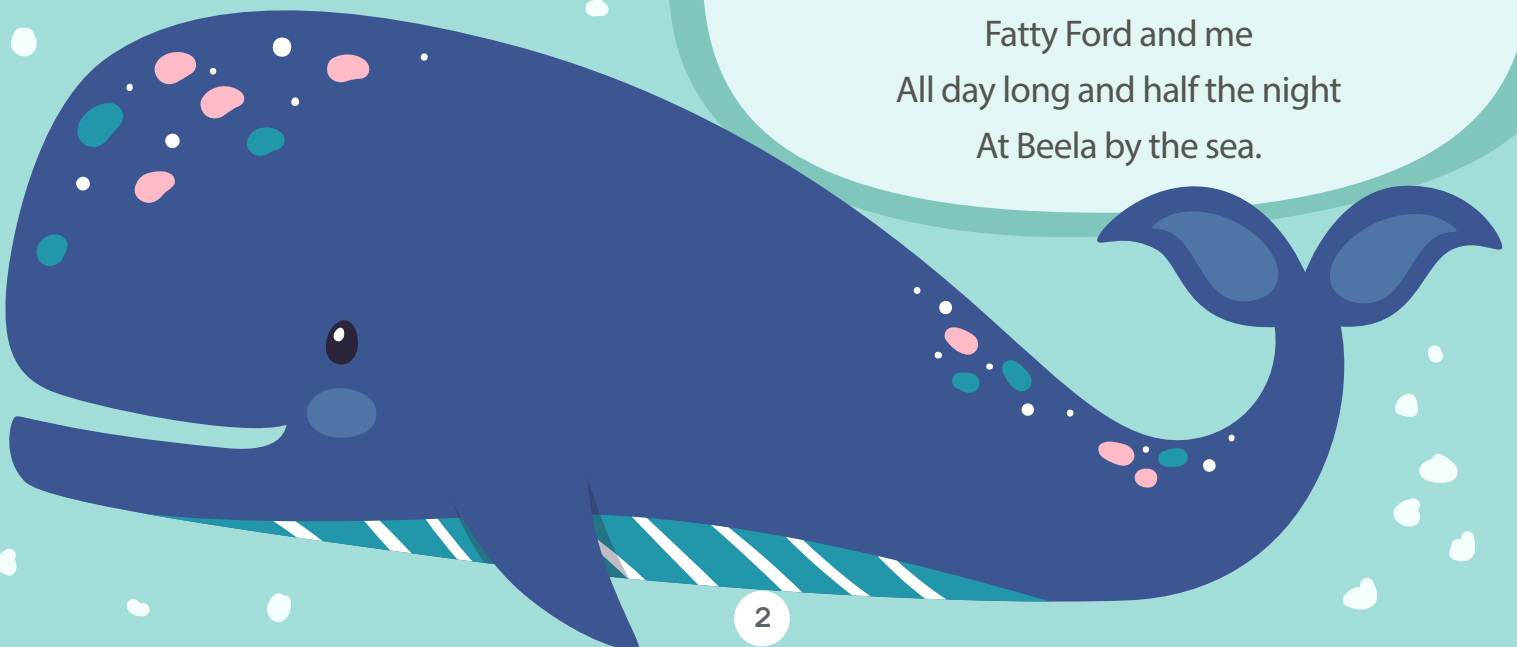
find the Ten Hidden objects in the picture



Silly Rhymes

Beela By The sea

Catch a floater, catch an eel,
Catch a lazy whale,
Catch an oyster by the heel
And put him in a pail.
There's lots of work for Uncle Ike,
Fatty Ford and me
All day long and half the night
At Beela by the sea.



Pondering corner

Why DO fish Have scales?

Fish have two layers of skin. The epidermis, which is the outer layer, secretes mucus like substances that protects the fish's skin from bacteria and fungi. The dermis forms the inner layer of its skin and is made of a tough bony material. Rings on every scale can tell us about a fish's age. The catfish and the lamprey do not have scales.

Here are some examples of fish with different types of scales -

- 1. Pinecone Fish** :- This fish has large and thick scales that overlap each other to make it look like a pine cone.
- 2. Porcupine Fish** :- This fish raises its spines when an enemy approaches.
- 3. Trunkfish** :- This fish's scale cover most parts of the body and is very hard. A trunkfish therefore can only move its eyes, mouth, fins and tail.
- 4. Shark** :- A shark has small pointed scales that are like teeth.



Tickle your funny bone

Q: What kind of music should you listen to while fishing?

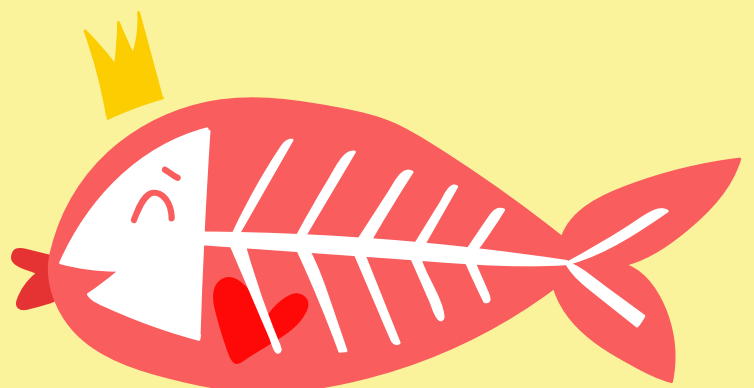
A: something catchy

Q: Why did Batman and Robin quit going fishing together?

A: BECAUSE Robin ate all the worms!

Q: Why do fish swim in schools?

A: BECAUSE they can't walk!



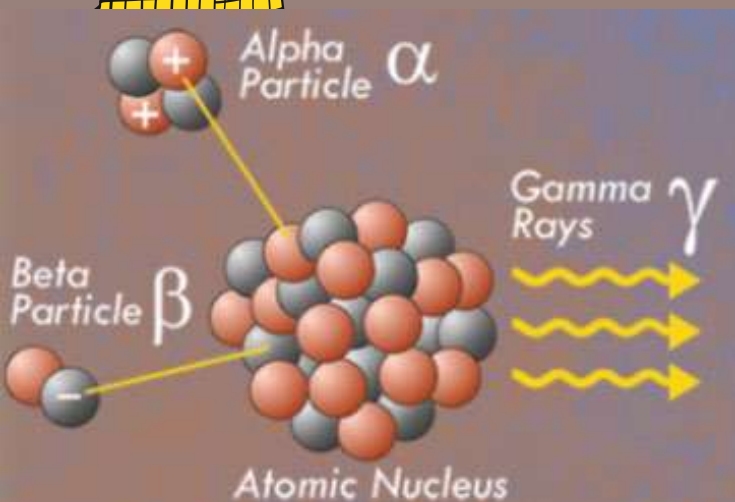
spot ten differences



science explorer



What is Radioactivity?



Whenever we talk of radioactivity or radiation, the first thought that fleets across our mind is X-Ray machines and with that the famous scientists Marie Curie and husband Pierre Curie who were awarded the Nobel Prize for their research on radiation.

But radioactivity encompasses more than just x-ray machines and the care to be taken when we are exposed to the rays that are often considered more harmful than good.

Radioactivity is the radiation that is released from an unstable atomic nucleus. Atoms of uranium and plutonium are naturally radioactive atoms. It is the decomposition of unstable atomic nuclei and thus the energy that is released is called radioactive decay.

Radioactivity was first discovered in 1896 by the French scientist Henri Becquerel. The radiation emitted could be in the form of alpha, beta or gamma particles. The alpha particles are positively charged particles and beta particles are negatively charged.

Radioactive materials are found in nature in soil, water and even vegetation. The sun is a natural source of radiation and x-ray machines are man-made sources that emit radiation.



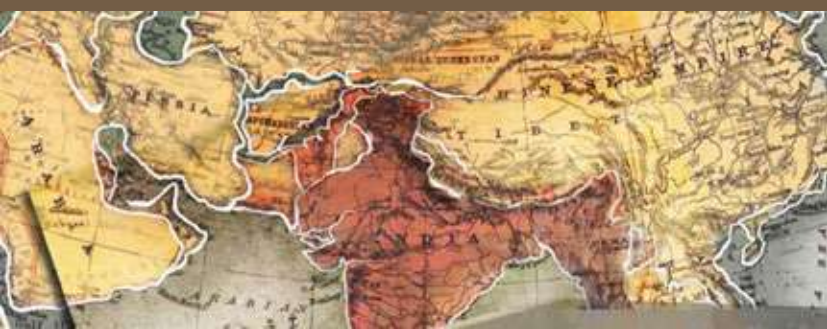
stories from history



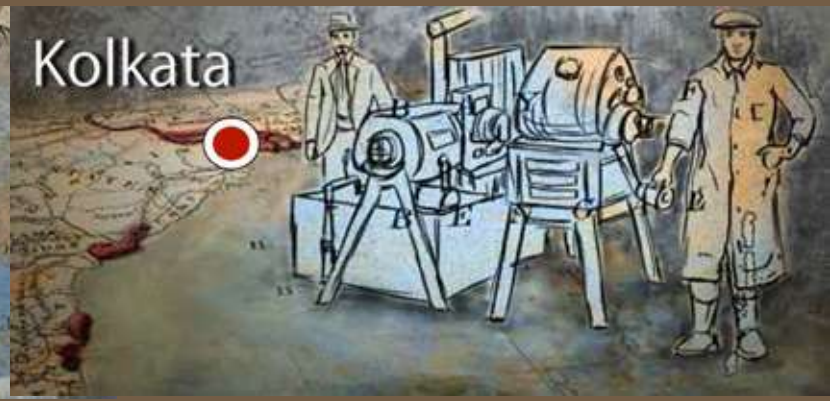
British Rule in india



This story begins in 1600 AD when the British East India company was given a Royal Charter to pursue trade in the East Indies. Competing European kingdoms all had subjects trading with the kingdoms of India, these foreign merchants would befriend kings and serve as a foreign diplomat in their courts. The Portuguese were the first major presence in the region and was mostly restricted to the west coast in Calicut, Cannanore, and Cochin in Kerala; Daman and Diu in Gujarat; and Goa, which became the headquarters of the Portuguese empire in India. But they are known to have been one of the first to open a factory in India which was on the banks of river Hugli, near present day Kolkata in 1574.



The next to follow were the French who settled on the East coast. Their largest trading post was Pondicherry. Then came the British who also began to acquire land and build factories with permissions from different Rajas. The foreign trading companies used their diplomatic relations with local kings to protect their interests against traders from other kingdoms. They also helped their patrons overthrow their enemies in return for privileges over land and commerce in the newly acquired kingdom.



They expanded their trade from there and invited traders to settle near their factory itself. They also persuaded Aurangzeb, the Emperor then, to allow them to trade without paying taxes.

After Aurangzeb died, the Nawabs began to assert their authority and refused any concession to the Company. They accused the Company of deceit while the Company on their part accused the Nawabs of denying trade to flourish within their own kingdoms.



In 1756, Sirajuddaulah, the then Nawab of Bengal, was aware that the British intended on colonising India. He took Fort William of Calcutta and began to shut down English factories and warehouses. In retaliation, the British sent Robert Clive with forces from Madras to counter Sirajuddaulah at Plassey.

This led to the very famous Battle of Plassey in 1757, which the English won because they bribed Mir Jafar, Sirajuddaulah's army chief and other top officials of his court.

After the Battle of Plassey, the British realised that they could install puppet kings whom they could control and eventually dethrone.



At first the British East India company brought over private mercenaries to help them fight these battles, even employing native Indians to protect the company's properties.



But when the Indian soldiers also revolted in 1857, the English monarchy sent in imperial troops. In 1858 the British monarchy took over supervising the military affairs in the region and by 1874 the British East India Company was nationalised and absorbed by the government.



In 1876, Queen Victoria was crowned Empress of India. It then went on to become the Jewel in the Crown of the British Empire and the largest colony under British Raj. Indian soldiers fought for the British in both World Wars while India was a large source of tea, cotton, indigo and spices.



Queen Victoria

fun with words

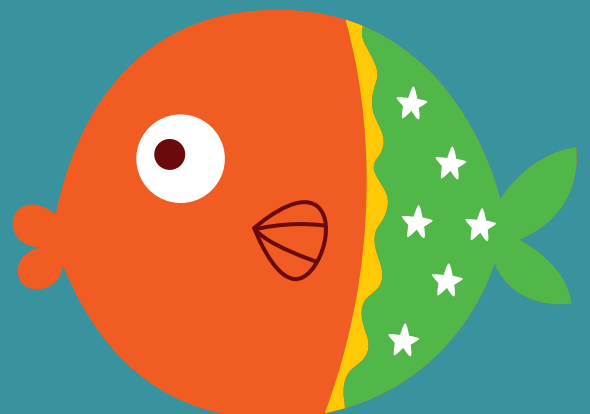
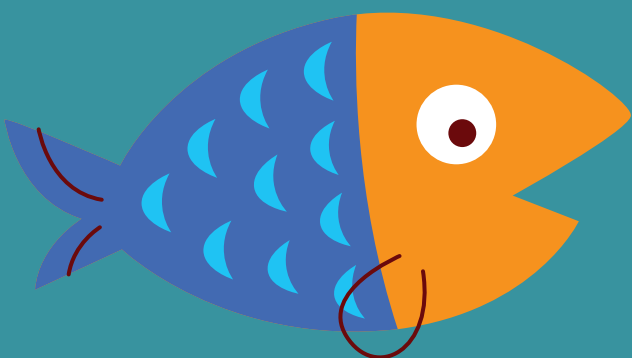


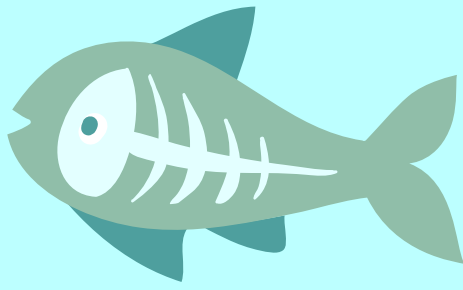
Re-arrange the Letters to Name the Fish

floniswhc
afnerislgh

lwhcnfiso
cbaarandr

uhferpfisf
aunt





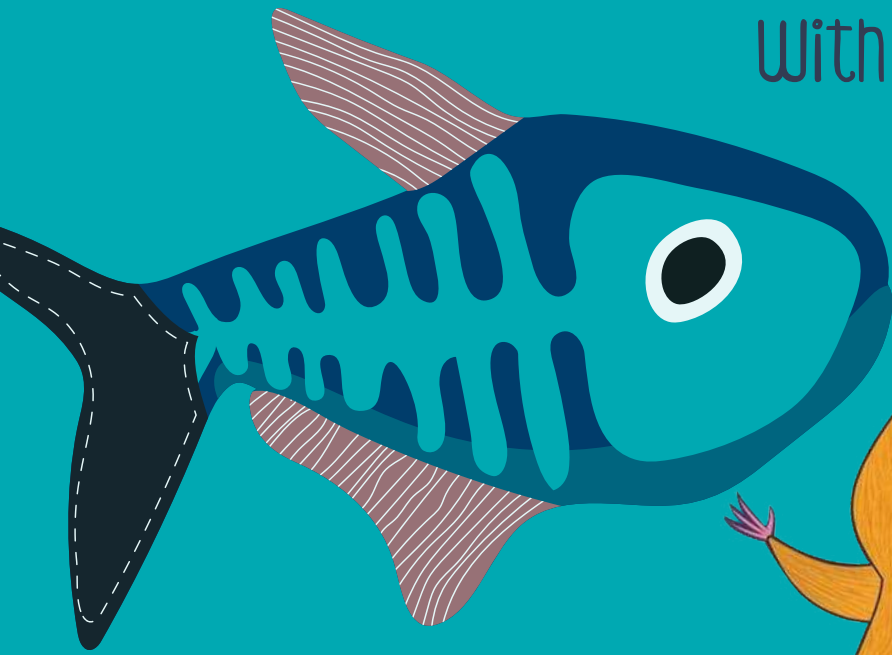
The X-Ray Tetra fish darted in and around the seaweed, swimming at a top speed, away from predators. He was a master of disguise and could evade any predator without a second thought. As he was swimming near his home one day, a sardine came swimming to him panicked and said, "You have to help me, please teach me how you hide from predators!"

complete
the
story...

fun facts

with Hamlet the Hamster

To know or not to know,
that is the question!
Well, wouldn't you
prefer to know?



Facts about the X-Ray Tetra Fish

- The X-Ray Tetra is also known as the Water Goldfinch due to the faint golden shimmer of their translucent skin.
- The transparency of their skin is thought to be a form of protection as predators find it much harder to spot them.
- This fish has an internal bony structure, which is used to pick up sound waves and leads to them having an acute sense of hearing.
- X-ray Tetra primarily hunt worms, insects and small crustaceans that live close to the river bed.



Help the Diver
find the Right
Way To his
submarine

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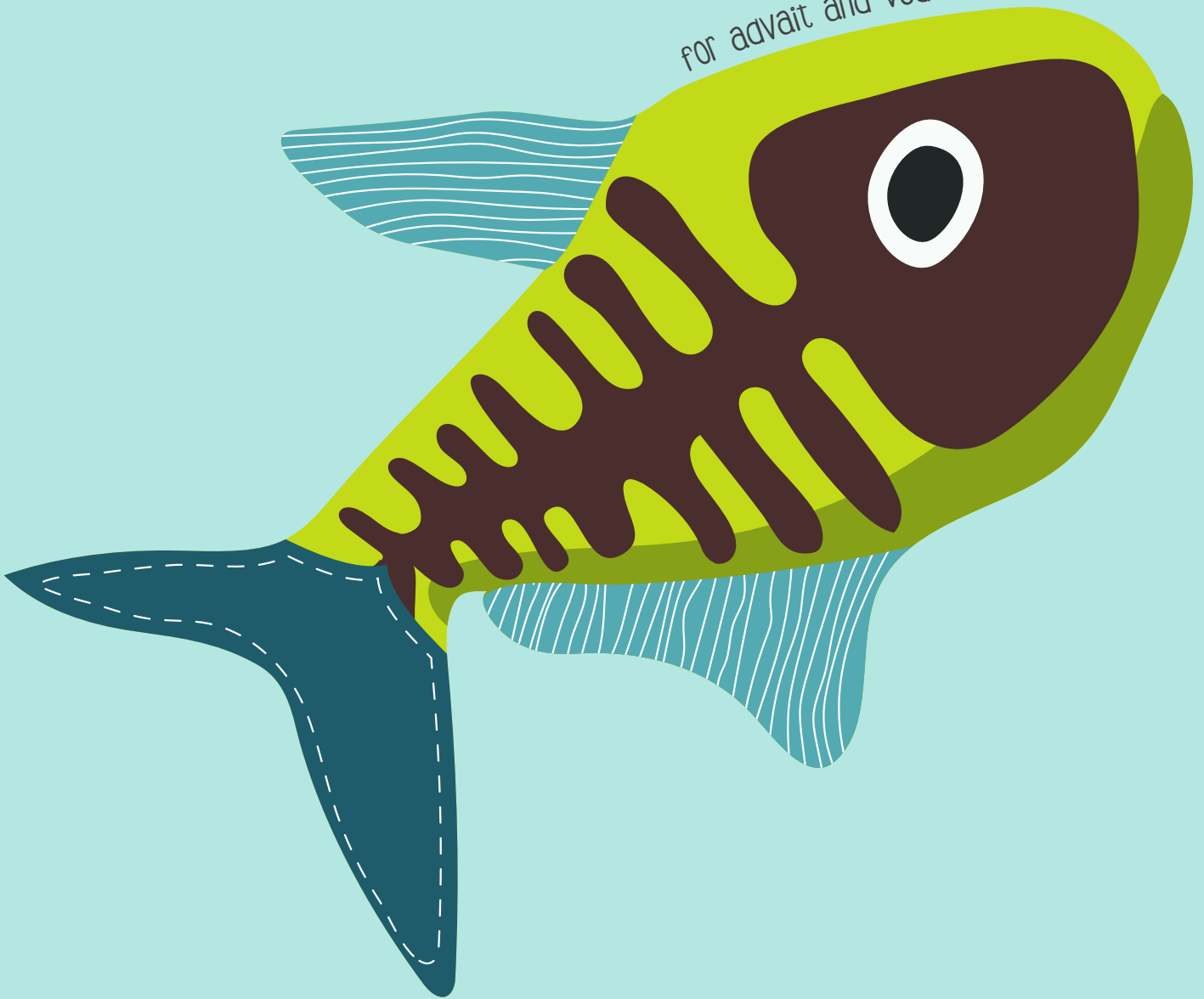


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for advait and vedant



mocomi timepass is a mini magazine available daily for children!
Packed full of stories, puzzles and fun facts.. there's a little bit of fun for everyone!

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