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什麼是 浮游生物? WHAT IS PLANKTON?

「浮游生物」一詞是源自希臘文中的「*PLANKTOS*」，解作「流浪者」或「漂泊者」。
THE TERM "PLANKTON" IS DERIVED FROM THE GREEK WORD "*PLANKTOS*", WHICH MEANS "DRIFTER" OR "WANDERER".

浮游生物是指一些在水中生活的生物，而缺乏有效的移動能力，即是不能夠抵抗水流，只能隨水流一直漂浮。

PLANKTON ARE THE ORGANISMS THAT CANNOT SWIM DIRECTLY AGAINST A WATER CURRENT.

浮游生物可以根據該生物能否進行光合作用的特性，而再分類為「浮游植物」和「浮游動物」。

PLANKTON CAN BE FURTHER CLASSIFIED AS "PHYTOPLANKTON" AND "ZOOPLANKTON", BASED ON WHETHER THEY ARE CAPABLE OF PHOTOSYNTHESIS.

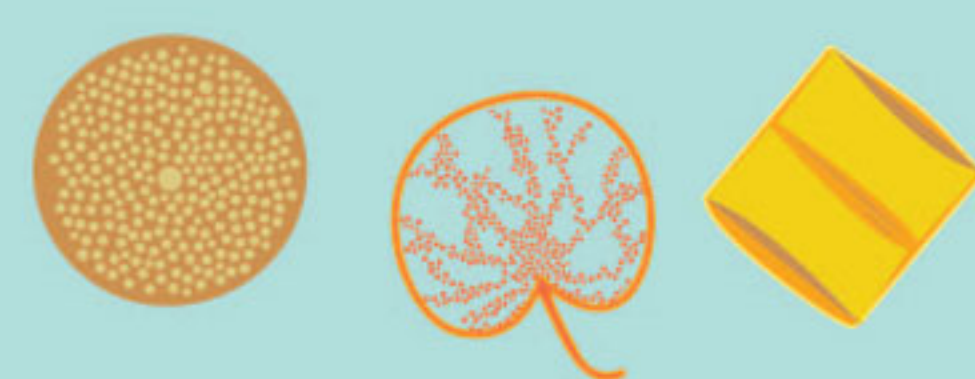


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神奇的 浮游生物 FUN FACTS OF PLANKTON

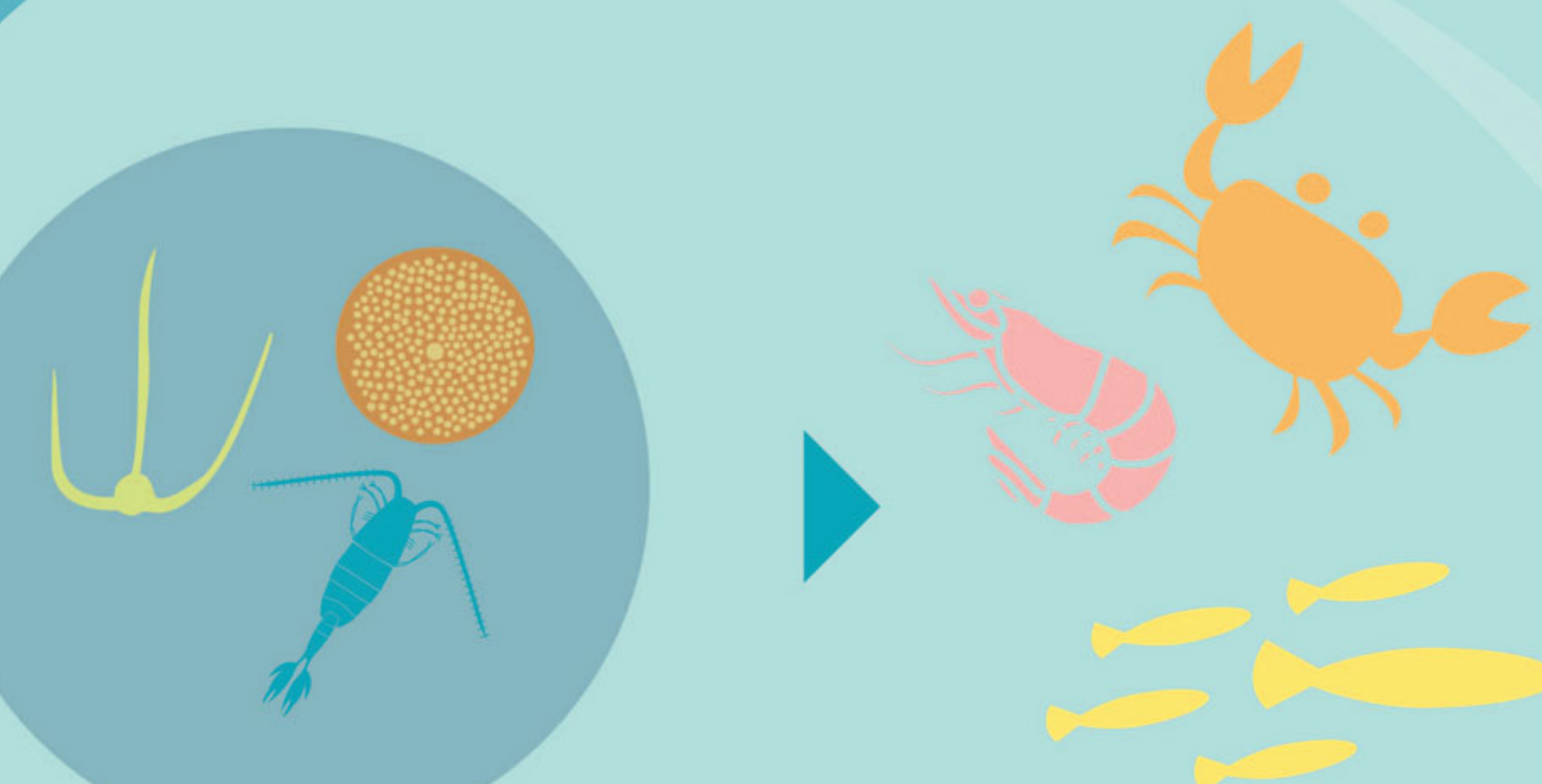
THE PHOTOSYNTHETIC ACTIVITIES OF PHYTOPLANKTON 浮游植物的光合作用



>50%
O₂

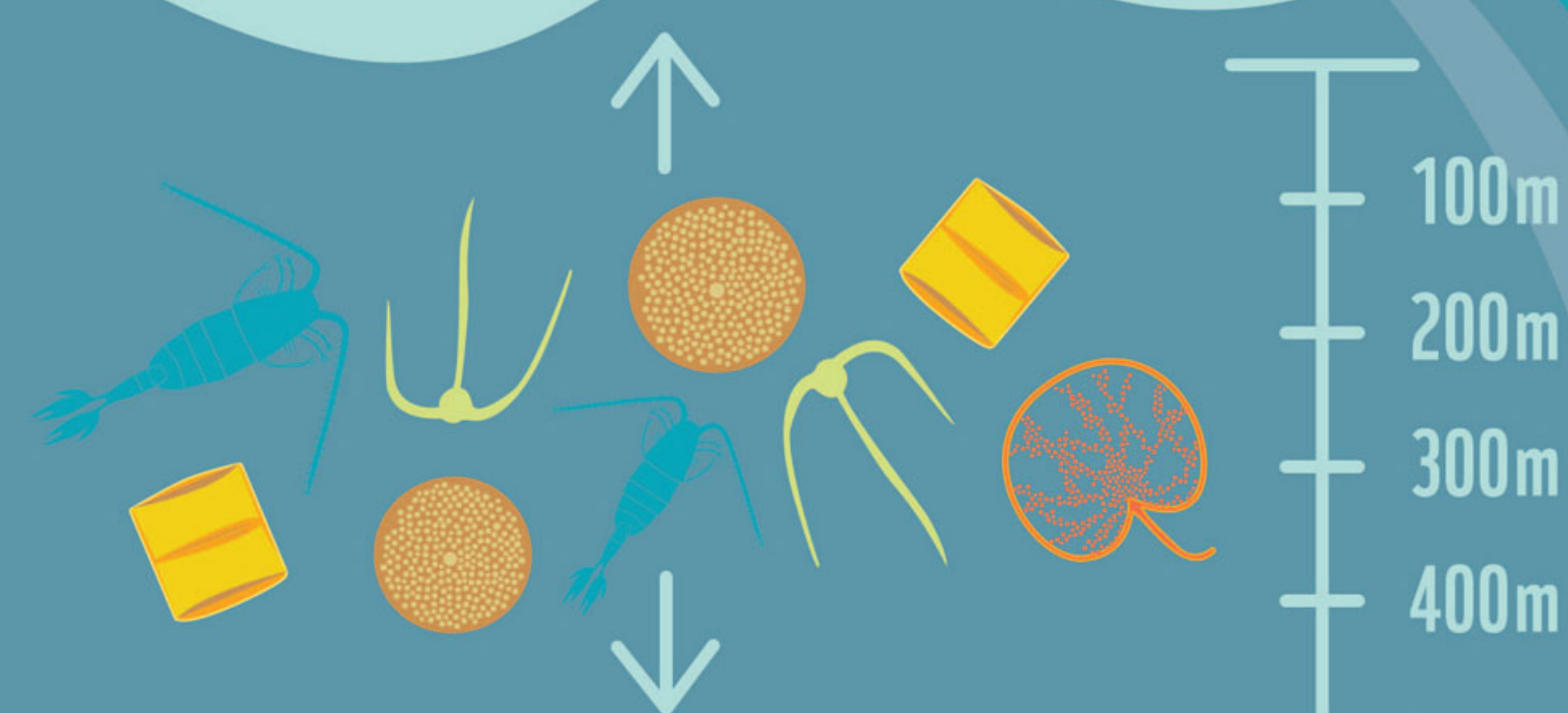
在我們吸入的氧氣中，超過50%是由浮游植物透過進行光合作用來製造的！

MORE THAN HALF OF THE OXYGEN WE BREATHE ON EARTH IS CREATED THROUGH THE PHOTOSYNTHETIC ACTIVITIES OF PHYTOPLANKTON!



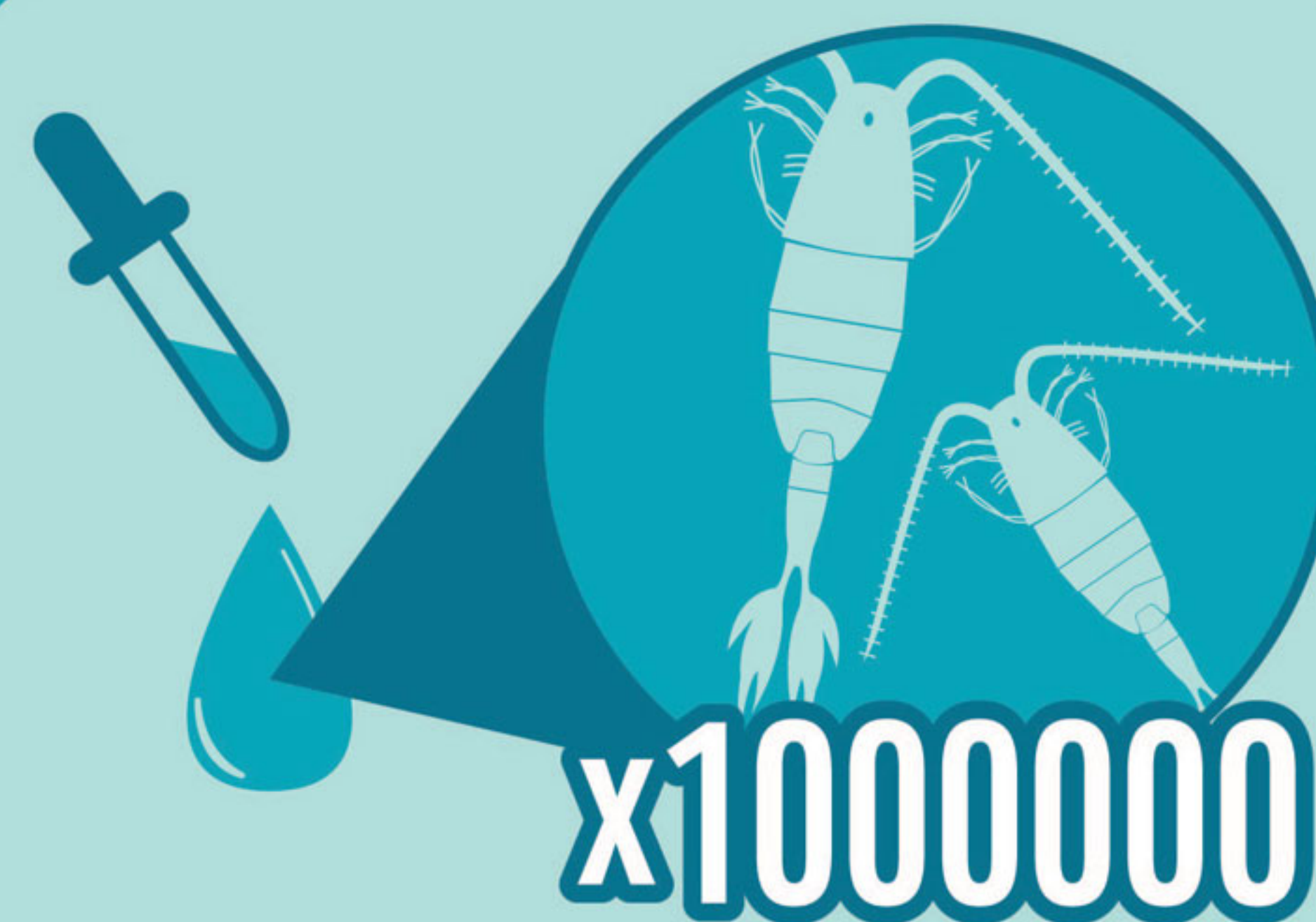
大部份常見的海鮮如魚、蟹、蝦、龍蝦、蠔和海膽等，牠們在幼體的時候也經歷過浮游生物階段。

MOST OF THE COMMON SEAFOOD, LIKE FISH, CRABS, SHRIMPS, OYSTERS AND SEA URCHINS, ALL GO THROUGH A PLANKTONIC STAGE WHEN THEY ARE YOUNG.



有些浮游生物可於一天內在海洋裡上下移動達數百米，以減少被捕食者進食的機會。

SOME PLANKTON CAN MOVE UP AND DOWN SEVERAL HUNDRED METERS A DAY IN THE WATER COLUMN TO REDUCE THEIR CHANCES OF BEING EATEN BY PREDATORS.

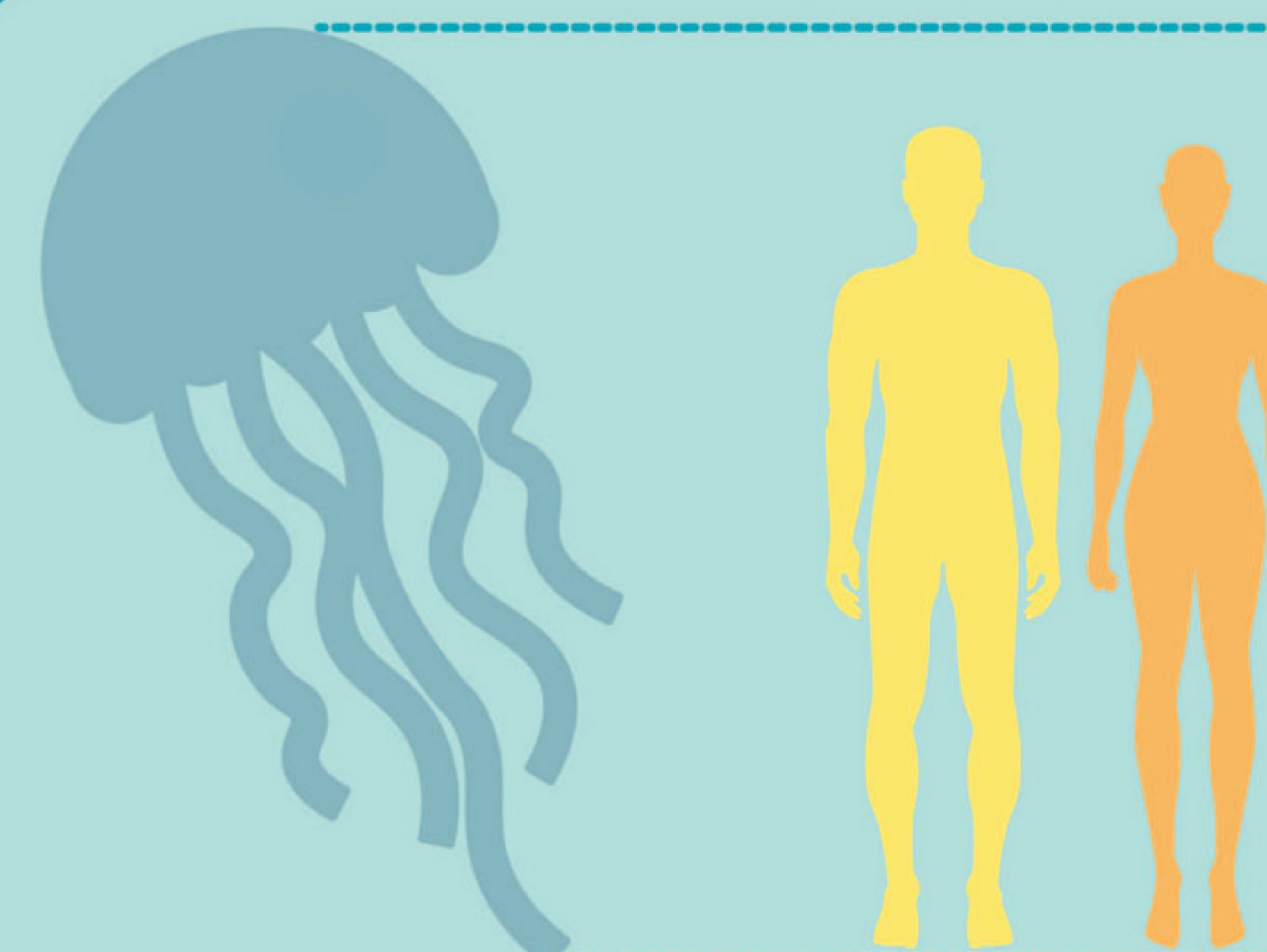


一滴海水就可能藏有多達一百萬隻浮游生物個體。

THERE CAN BE UP TO A MILLION SINGLE-CELLED PLANKTON IN A SINGLE DROP OF SEAWATER.

很多浮游生物死後會埋藏在海床，並慢慢形成地殼中的一些化石燃料。

SOME FOSSIL FUELS BURIED IN THE EARTH'S CRUST WERE CREATED BY THE DECOMPOSITION AND TRANSFORMATION OF THE DEAD BODIES OF ANCIENT PLANKTON SPECIES, SUCH AS OIL.



雖然絕大部分的浮游生物都是很微小，但有些浮游生物比人類還要大，例如水母。

ALTHOUGH MOST OF PLANKTON ARE SMALL IN SIZE, NOT ALL OF THEM ARE! SOME OF THEM CAN BE AS LONG AS A HUMAN BEING, AS SOME JELLYFISH CAN GROW UP TO 3 METERS IN LENGTH IN THEIR ADULT STAGE.

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人類活動對浮游生物和海洋生態系統的影響



海洋垃圾

- 塑膠垃圾分解成微型膠粒

浮游動物
有機會在進食時
攝入膠粒

其他海洋生物
把該浮游生物及
其體內的膠粒
一併吃掉

- 阻擋陽光

有機會造成
珊瑚白化

- 塑膠有機會
裹纏海洋生物

減少浮游生物和
海洋生物的數量
和多樣性

水質污染

水中含有過多營養
(富營養作用)

- 排放未經
處理的污水

有毒的藻華會
阻塞魚鰓，
導致魚類窒息

有利紅潮
及藻華發生

晚間消耗海洋中的氧氣，
導致海洋生物窒息

氣候變化

- 海洋鹽度和
溶氧量改變



- 海洋酸化

酸

影響海洋生物
成長及發育

降低生存
機會

減慢動物外殼的鈣化
速度，令外殼變薄

減少海洋生物
居住和覓食的空間

棲息地減少

- 具破壞性的
捕魚方式
如：底拖網和使用
炸藥捕魚

- 填海、沿岸發展、
挖泥

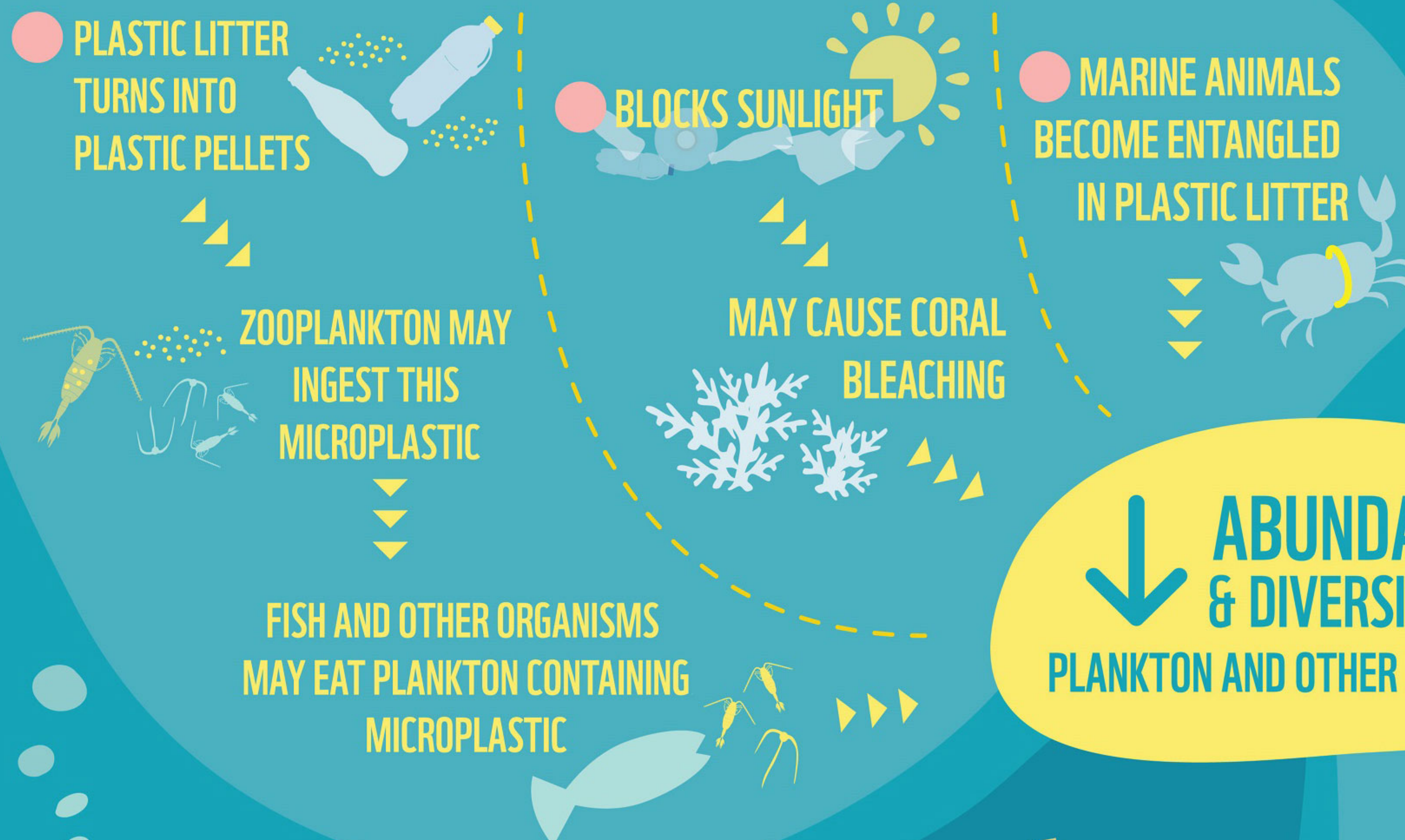
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IMPACTS OF HUMAN ACTIVITY ON PLANKTON AND MARINE ECOSYSTEMS



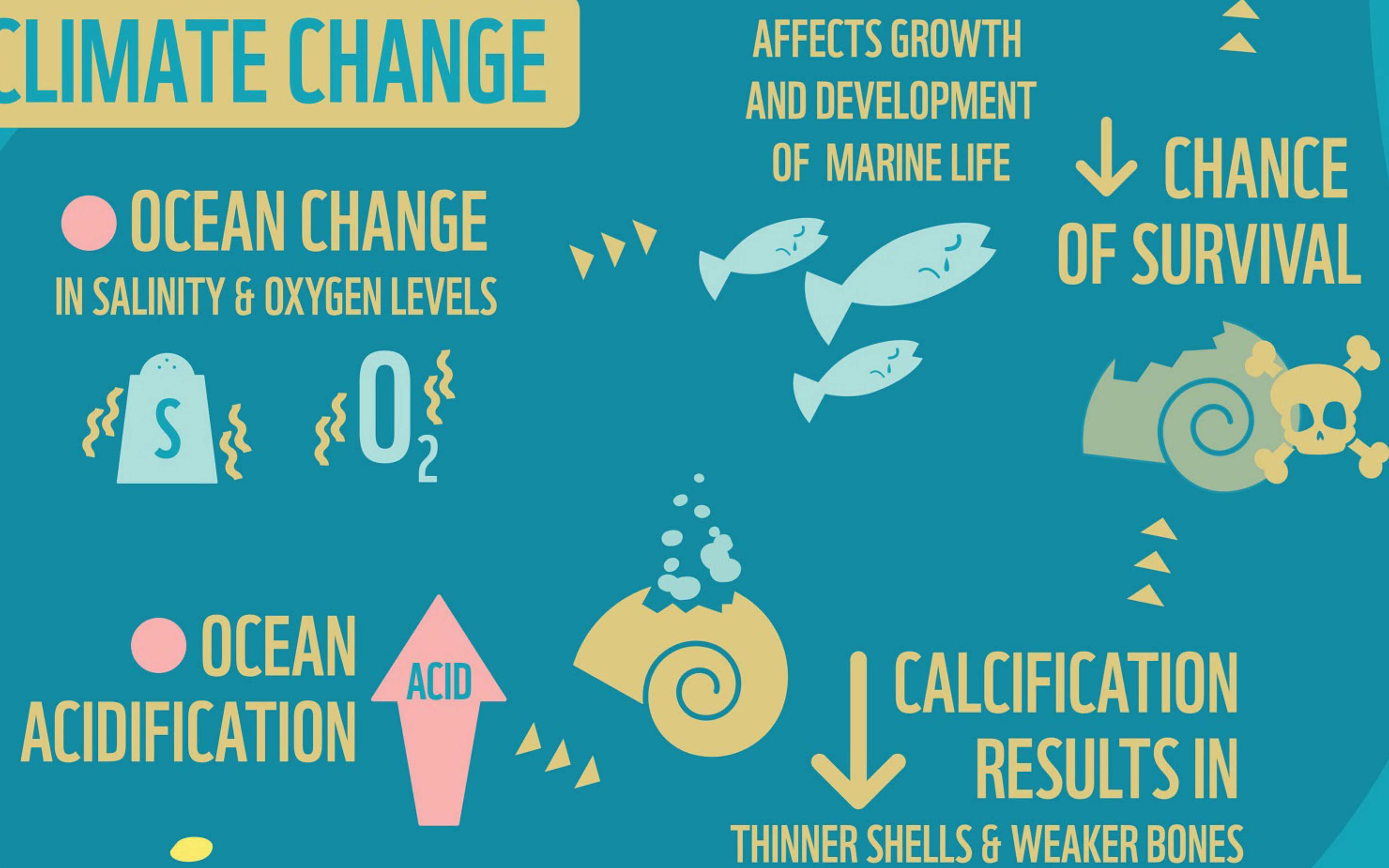
MARINE LITTER



WATER POLLUTION



CLIMATE CHANGE



SHELTER & FEEDING AREA



HABITAT LOSS

