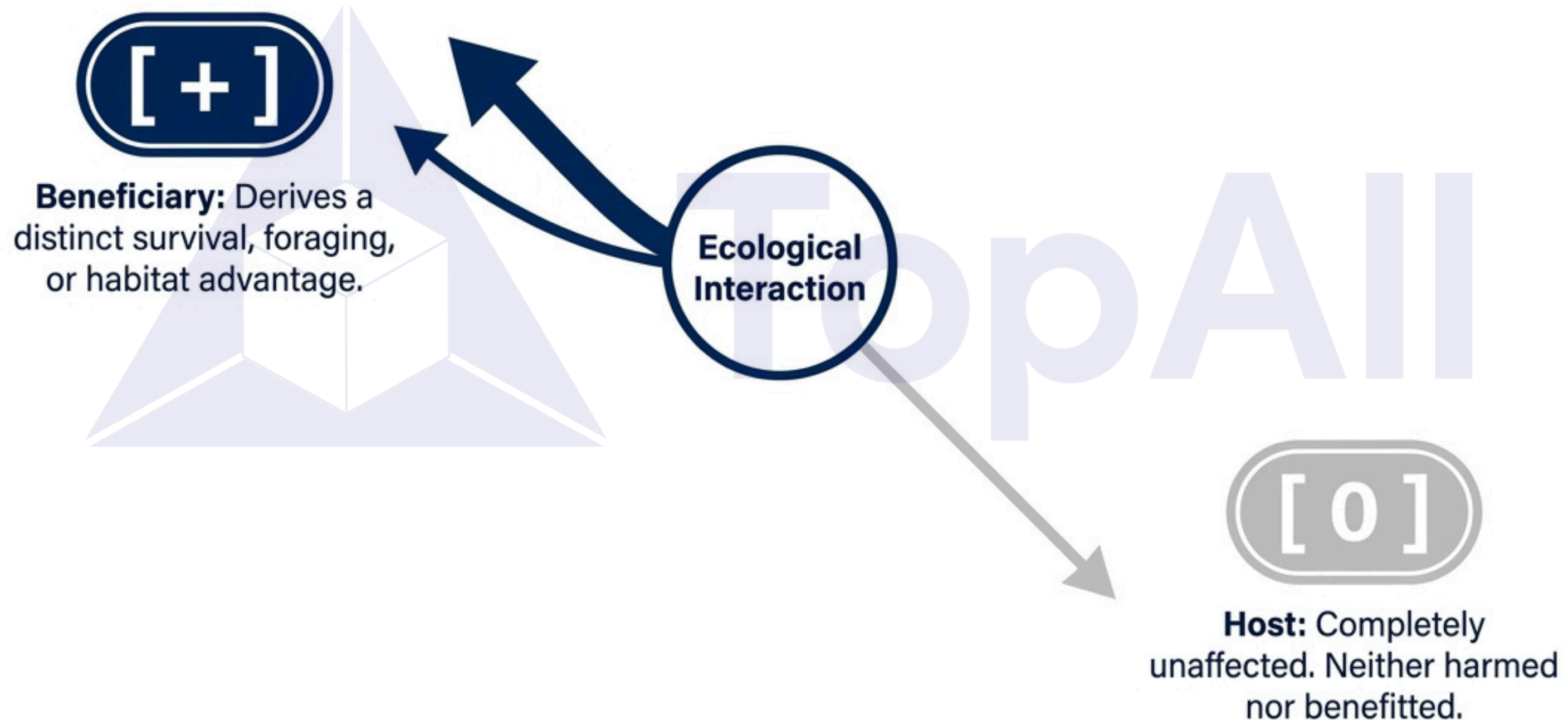


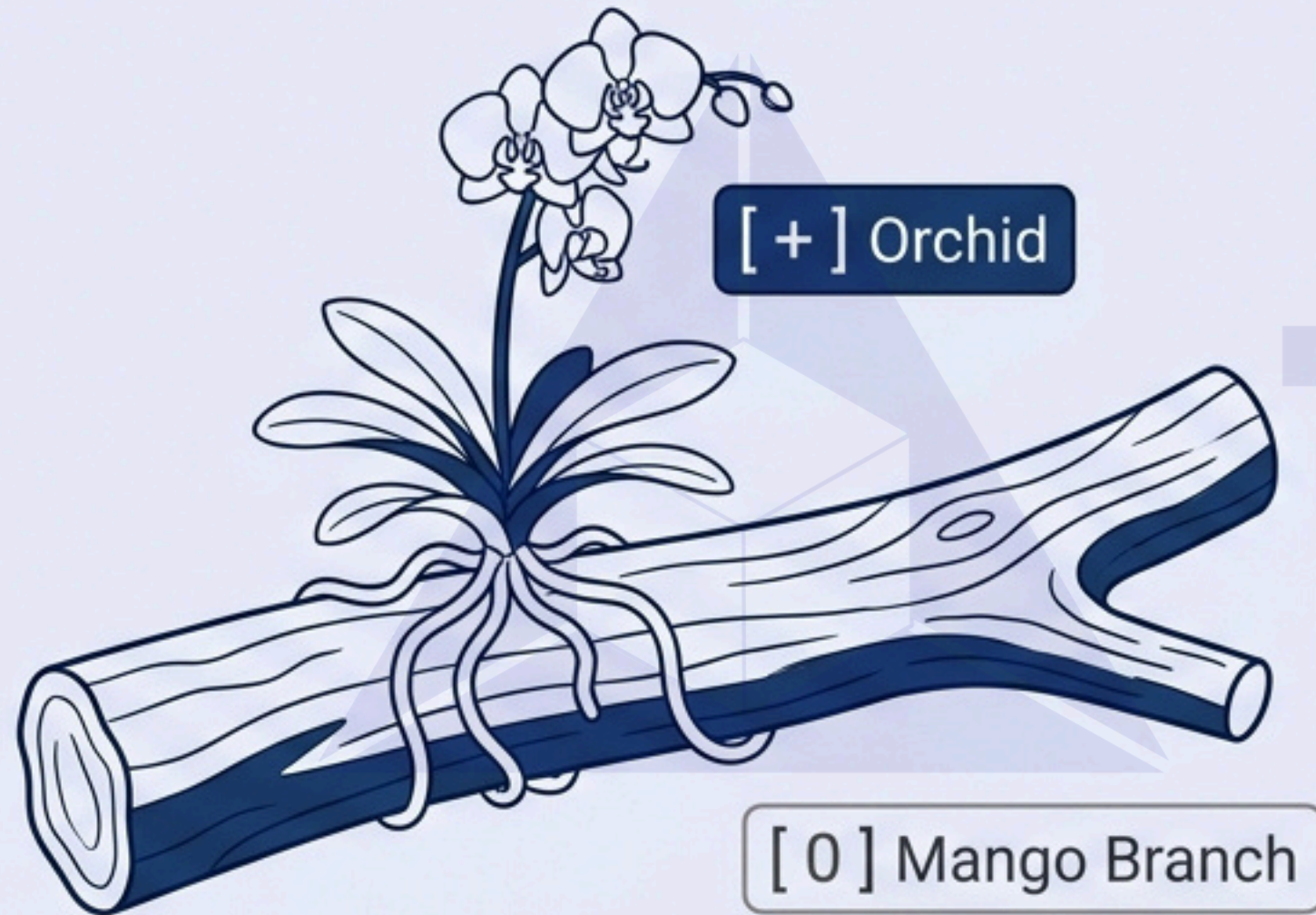
Commensalism: The Zero-Cost Benefit

An interspecific population interaction where one species is benefitted and the other is neither benefitted nor harmed.



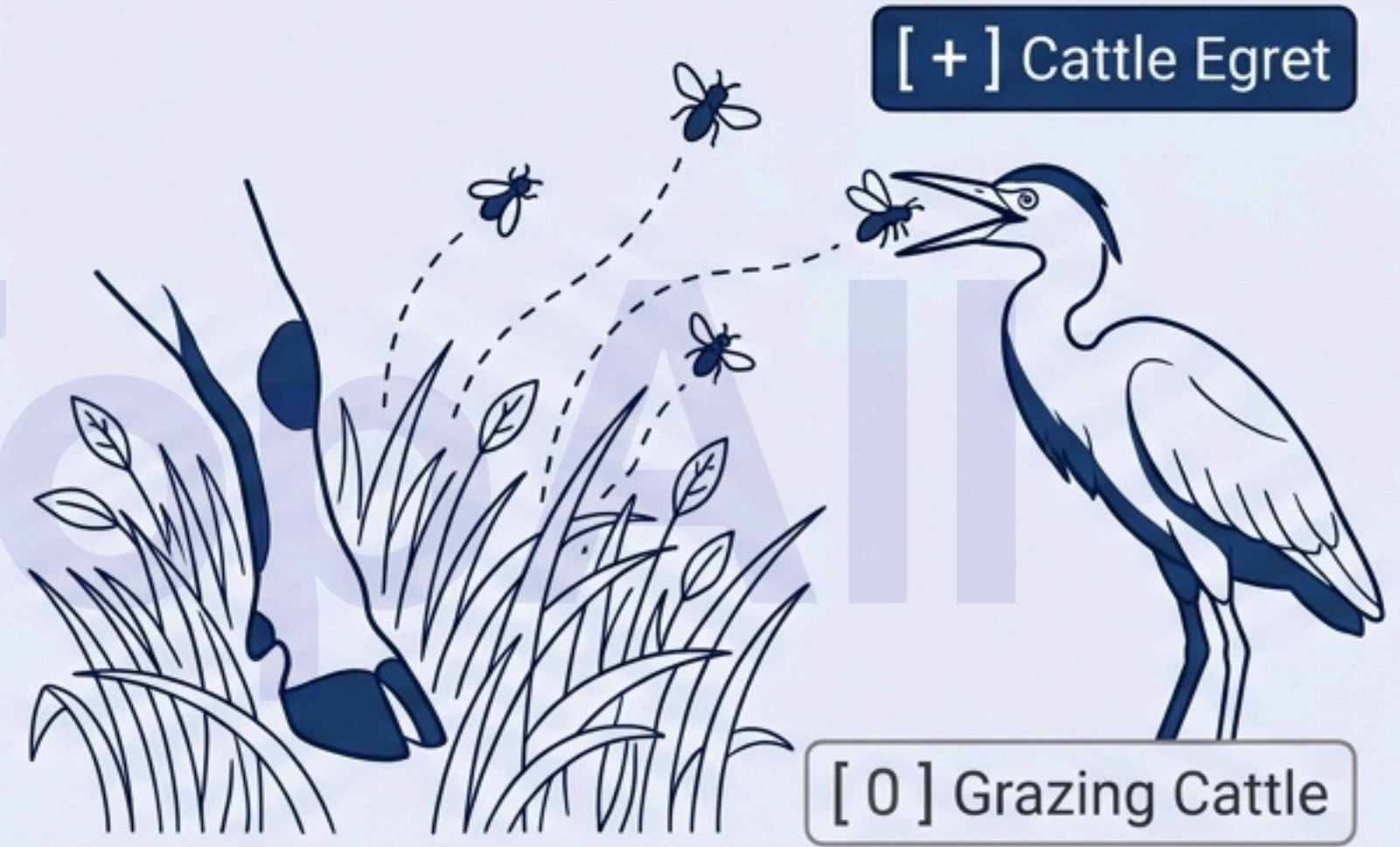
Terrestrial Synergies

Epiphytic Anchoring



The orchid gains a physical anchor point and better access to sunlight without tapping into the mango tree's nutrient supply.

Flushing Prey



As cattle move, they stir up and flush out hidden insects from the vegetation, providing easy prey for the foraging egrets.



You've Learned the Theory. Let's Test Them Now.

$$E=mc^2$$



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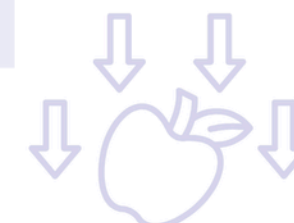
Practice Now



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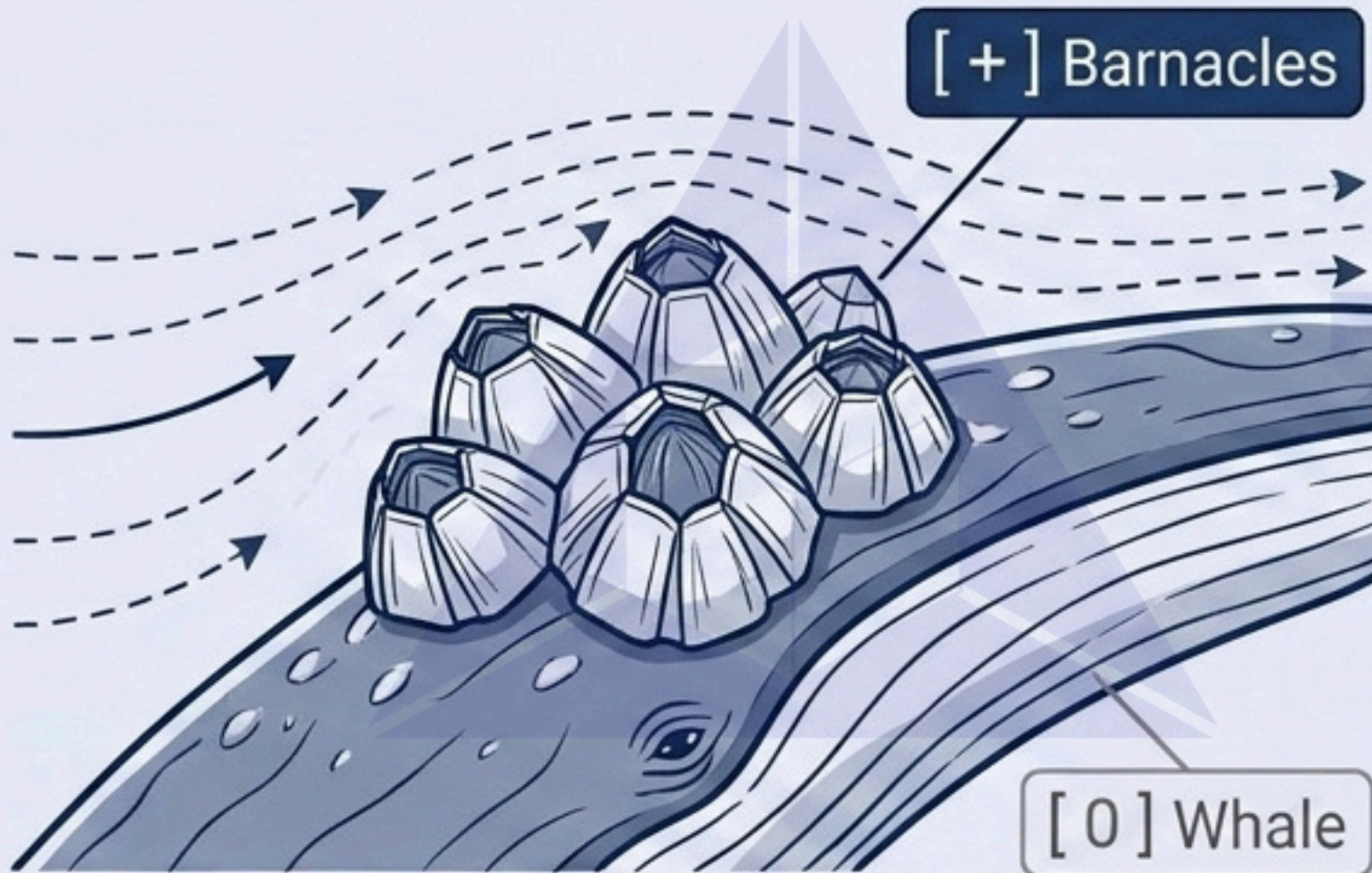
Key Highlights

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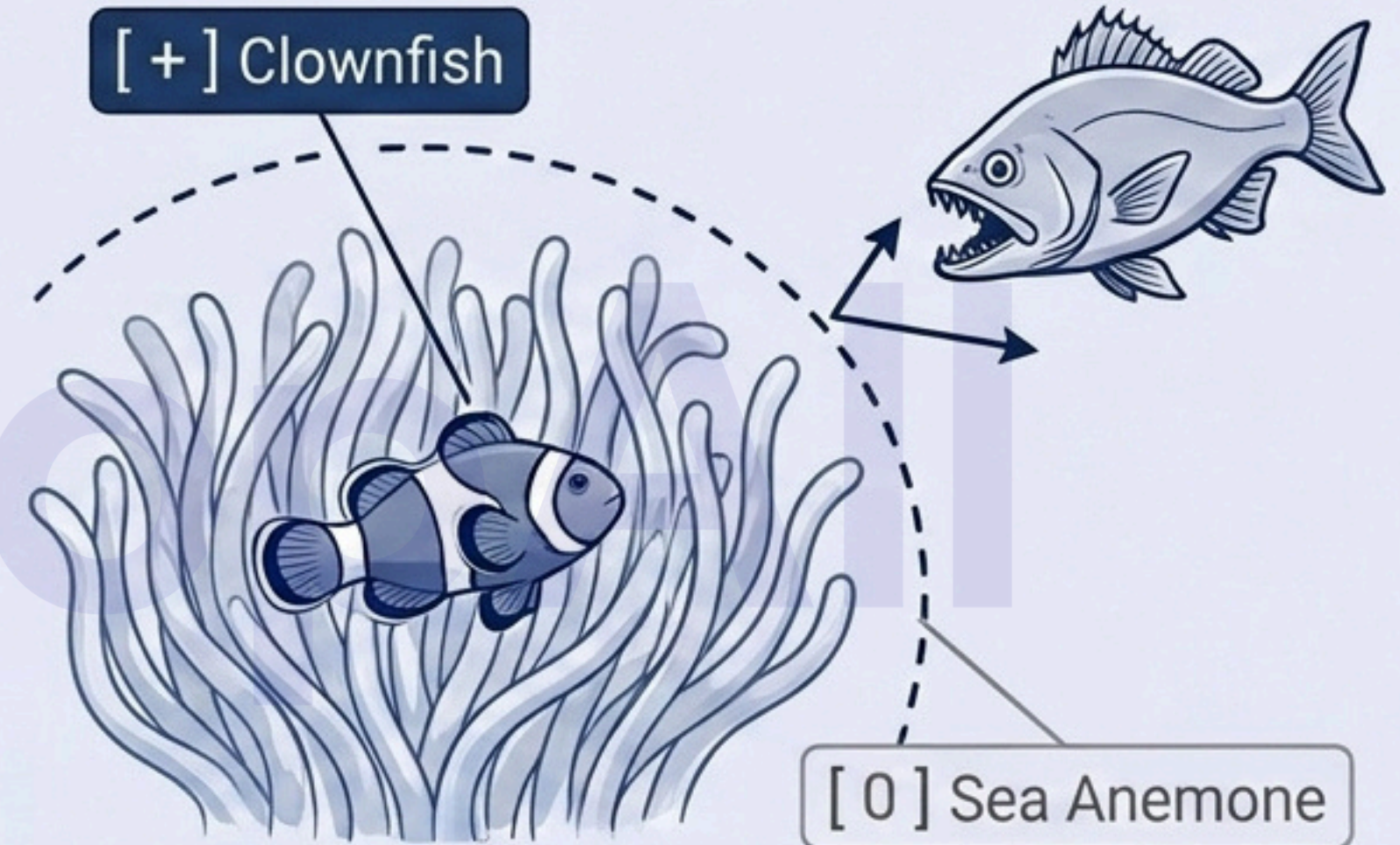
Marine Synergies

Hitching a Ride



Barnacles gain mobility through nutrient-rich waters for filter-feeding, while the massive whale registers no apparent drag or harm.

The Living Shield



The clownfish gains a safe haven from predators who avoid the anemone's stinging tentacles. The anemone hosts the fish at zero cost.

The Interaction Matrix

Species A	Species B	Interaction Name
[+]	[+]	Mutualism
[+]	[-]	Predation / Parasitism
[+]	[0]	Commensalism
[-]	[-]	Competition
[-]	[0]	Amensalism

Commensalism sits precisely at the ecological midpoint—a highly evolved interaction requiring no energy extraction from the host.

NEET Key Takeaway: Commensalism

The + / 0 Interaction



Epiphyte/Host: Orchid **[+]** on Mango branch **[0]**



Marine Transport: Barnacles **[+]** on back of Whale **[0]**



Foraging Association: Cattle Egret **[+]** with Grazing Cattle **[0]**



Predator Protection: Clownfish **[+]** with Sea Anemone **[0]**

Must know: In all four textbook examples, Species A extracts a critical survival benefit (food, space, transport, protection) while Species B remains ecologically unaffected.



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