



## Fish with evolved legs foraging for buried food

### Description

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A fish in the Atlantic Ocean called a northern sea robin has evolved legs. These legs help the fish find food buried in the sand. They use these legs like a tongue to sense prey in the seabed.

The sea robins have three legs on each side of their body. These legs come from their pectoral fins. They are good at finding prey hidden in the sand.

Researchers brought live sea robins to their lab to study their hunting skills. Some sea robins are good at finding buried prey while others are better at catching prey on the surface.

Sea robins have evolved special legs that can move independently and quickly. These legs are controlled by a gene called *tbx3a*.

This study shows how sea robins have evolved unique legs to help them survive in their ocean habitat.

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## Vocabulary List:

1. **Evolved** /ɪˈvɔːlvd/ (verb): Developed or changed gradually often into a more advanced form.
2. **Pectoral** /ˈpɛk.tər.əl/ (adjective): Relating to the front of the body or the chest area.
3. **Prey** /preɪ/ (noun): An animal hunted or seized for food.
4. **Habitat** /ˈhæb.ɪ.tæt/ (noun): The natural environment in which an organism lives.
5. **Buried** /ˈbɛr.id/ (adjective): Covered or concealed often by soil or sand.
6. **Independently** /ˌɪndɪˈpɛndəntli/ (adverb): In a way that is free from outside control or influence.

## Comprehension Questions

### Multiple Choice

1. Where is the fish, northern sea robin, commonly found?

- Option: Pacific Ocean
- Option: Arctic Ocean
- Option: Atlantic Ocean
- Option: Indian Ocean

2. How many legs does a sea robin have on each side of its body?

- Option: 1
- Option: 2
- Option: 3



Option: 4

3. What are the legs of a sea robin evolved from?

- Option: Tail fin
- Option: Dorsal fin
- Option: Pectoral fins
- Option: Anal fin

4. What gene controls the special legs of sea robins?

- Option: tbx1a
- Option: tbx2a
- Option: tbx3a
- Option: tbx4a

5. How do sea robins use their evolved legs to find prey?

- Option: Swim faster
- Option: Breathe underwater
- Option: Sense prey in the seabed
- Option: Change colors

6. What did researchers study in sea robins in the lab?

- Option: Breeding patterns
- Option: Hunting skills
- Option: Migration routes
- Option: Communication behaviors

## Answer

**Multiple Choice:** 1. Atlantic Ocean 2. 3 3. Pectoral fins 4. tbx3a 5. Sense prey in the seabed 6. Hunting skills

## Vocabulary quizzes

**Multiple Choice ( Select the Correct answer for each question. )**

1. Which process involves gradual development and change over time?

- Option: Evolved
- Option: Pectoral
- Option: Prey



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Option: Habitat

2. Who is responsible for enforcing rules and regulations?

Option: Encourage

Option: Authorities

Option: Worries

Option: Habitat

3. What should be monitored to ensure compliance?

Option: Surveyed

Option: Encourage

Option: Content

Option: Worries

4. Who should ensure the safe and proper functioning of systems?

Option: Regulator

Option: Responsible

Option: Regulation

Option: Astronaut

5. What determines the territory where regulations apply?

Option: Restricts

Option: Violation

Option: Jurisdiction

Option: Concerns

6. What must be protected in the context of data collection?

Option: Connection

Option: Livestreamed

Option: Privacy

Option: Clarify

7. Which state is desirable for ecosystems to thrive?

Option: Monitor

Option: Healthier

Option: Regulator

Option: Concern

8. Which term describes situations presenting difficulties or issues?



- Option: Clarify
- Option: Content
- Option: Problematic
- Option: Responsible

9. Who typically travels and works in space?

- Option: Regulation
- Option: Astronaut
- Option: Clarity
- Option: Satellite

10. What is crucial for communication between devices?

- Option: Privacy
- Option: Concern
- Option: Connection
- Option: Livestreamed

**Gap-Fill ( Fill in the blanks with the correct word from the vocabulary list. )**

11. The area was thoroughly \_\_\_\_\_ to gather data for analysis.

12. Teachers should \_\_\_\_\_ students to ask questions and seek knowledge.

13. The new policy \_\_\_\_\_ employees from using social media during work hours.

14. The meeting addressed the major \_\_\_\_\_ of the community regarding the proposed construction project.

15. The presentation lacked \_\_\_\_\_ causing confusion among the audience.

16. The industry is overseen by a government \_\_\_\_\_ that sets standards for operation.

17. Repeated \_\_\_\_\_ of the safety protocols led to severe penalties for the company.

18. Parents often have \_\_\_\_\_ about their children's well-being especially when they are away from home.

19. Conservation efforts aim to protect the natural \_\_\_\_\_ of endangered species.



20. The research groups worked \_\_\_\_\_ to reach their findings without any collaboration.

**Matching Sentences ( Match each definition to the correct word from the vocabulary list. )**

21. Weightlifters often focus on strengthening their chest and shoulder .
22. The treasure was deep underground to hide it from looters.
23. The government agency acts as a for ensuring fair competition in the market.
24. It is essential to constantly the temperature of the sensitive equipment.
25. The concert was online for fans who could not attend in person.
26. The company introduced a new dress code to improve professionalism.
27. The welfare of animals in captivity is a major for animal rights activists.
28. The weather provides data on storms and atmospheric conditions.
29. The public library has a strict no-noise to ensure a quiet study environment.
30. The local investigated the case and made arrests in connection with the robbery.

**Answer**

**Multiple Choice:** 1. Evolved 2. Authorities 3. Content 4. Responsible 5. Jurisdiction 6. Privacy 7. Healthier 8. Problematic 9. Astronaut 10. Connection

**Gap-Fill:** 11. Surveyed 12. Encourage 13. Restricts 14. Concerns 15. Clarity 16. Regulation 17. Violations 18. Worries 19. Habitat 20. Independently

**Matching sentence:** 1. Pectoral 2. Buried 3. Regulator 4. Monitor 5. Livestreamed 6. Policy 7. Concern 8. Satellite 9. Policy 10. Authorities

**CATEGORY**

- 1. Sci/Tech - LEVEL1

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