

# Robot Re-creates a Tetrapod's Moves

## Article-Based Observation, Q

**Directions:** After reading the article "[Robot re-creates a tetrapod's moves](#)," answer the following questions.

1. What is *Orobates pabsti* and how is the creature related to humans?
2. Why are scientists interested in how *O. pabsti* walked?
3. Why is the amniotic membrane considered a "key evolutionary innovation"?
4. What techniques did scientists combine to try to understand how *O. pabsti* moved?
5. Why were the conclusions about *O. pabsti*'s gait surprising?
6. Based on clues from the article, what does it mean for a gait to be efficient?

**7. What other research questions related to ancient locomotion might benefit from the approach these researchers used?**

**8. Identify one word in the article that is unfamiliar and define it from context.**

**9. Watch the video provided in the online version of the [article](#), “A four-legged robot hints at how ancient tetrapods walked.” What is one piece of information that appears in both the article and video? What information is in the video but not in the article?**