

Robot Re-creates a Tetrapod's Moves

Cross-Curricular Connections, Q

Directions: Answer the questions below based on your teacher's instructions.

1. What background knowledge would you need to complete the specified research approach? What type of prior research experience and/or fieldwork would have been helpful?

2. What type of data would you get from this research approach and what insight might that data offer?

3. Come up with a possible hypothesis about a tetrapod's gait that could be tested via the approach. State specifically whether your hypothesis applies to modern or ancient tetrapods. What is a possible result relating to the hypothesis?

4. What gaps in knowledge would you still have following the investigation? What additional approach could help you fill in the gaps?

5. Scientists used this research approach to study the locomotion of an extinct species. What other types of research questions in other fields currently benefit or could benefit from the approach your group studied? Look up information, if needed, to give an example.