



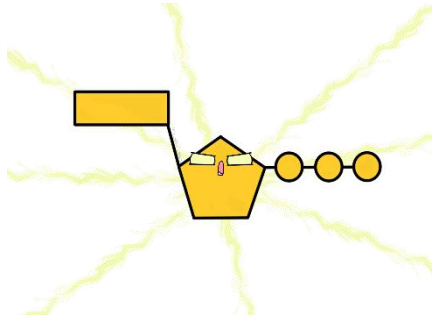
Amoeba Sisters | Video Recap

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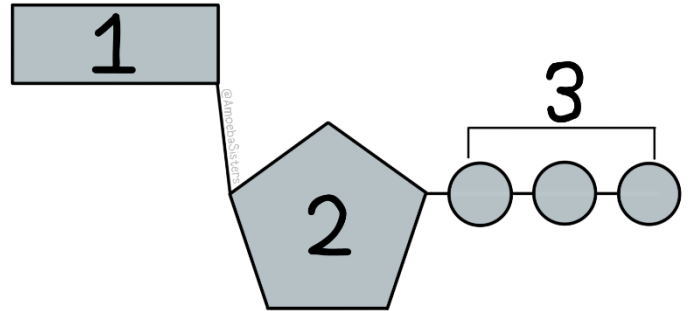
Amoeba Sisters Video Recap: ATP

1. **ATP** is introduced as an energy currency. What does ATP stand for?

2. Which type of **biomolecule** is ATP? Recall the biomolecules include carbohydrates, lipids, proteins, and nucleic acids.



3. As a **nucleotide** derivative, ATP has three major components. Label the following parts of ATP.



4. ATP is used to power many cellular processes! Illustrations have been placed from the video to help refresh your memory. List six general examples of cellular processes (several mentioned at the beginning of the video and several mentioned at the end) that can involve ATP.

A) _____

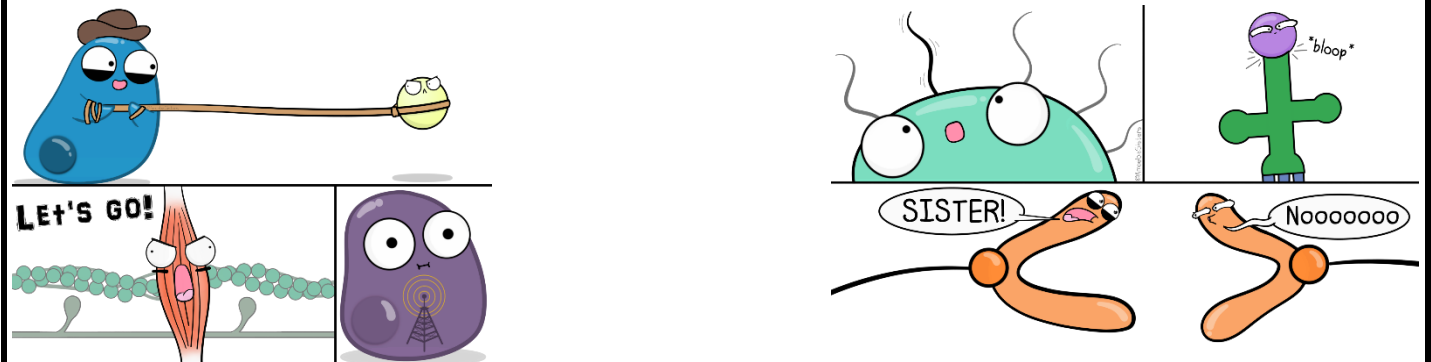
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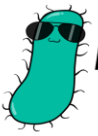
C) _____

D) _____

E) _____

F) _____



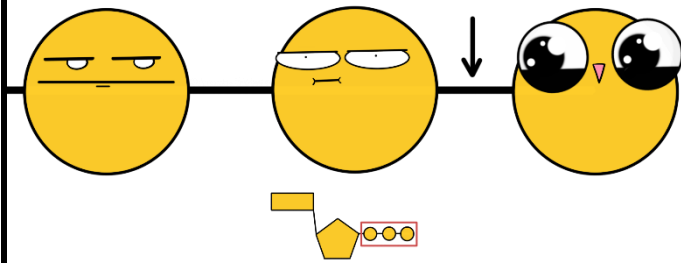


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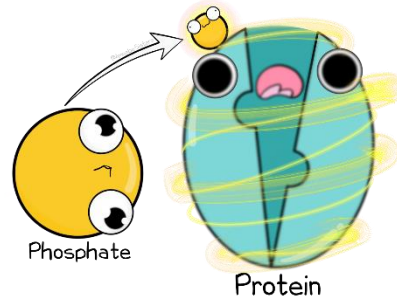
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Amoeba Sisters Video Recap: ATP

5. What is it about the **structure of ATP** that contributes to its ability to act as an energy currency?



6. When a phosphate is transferred from ATP, it can **phosphorylate** another molecule. How could this assist in allowing a protein to transport molecules against their concentration gradient?



7. What is meant by an **ATP cycle** and why is it an important, frequent event in cells? How does this involve **ADP**?

