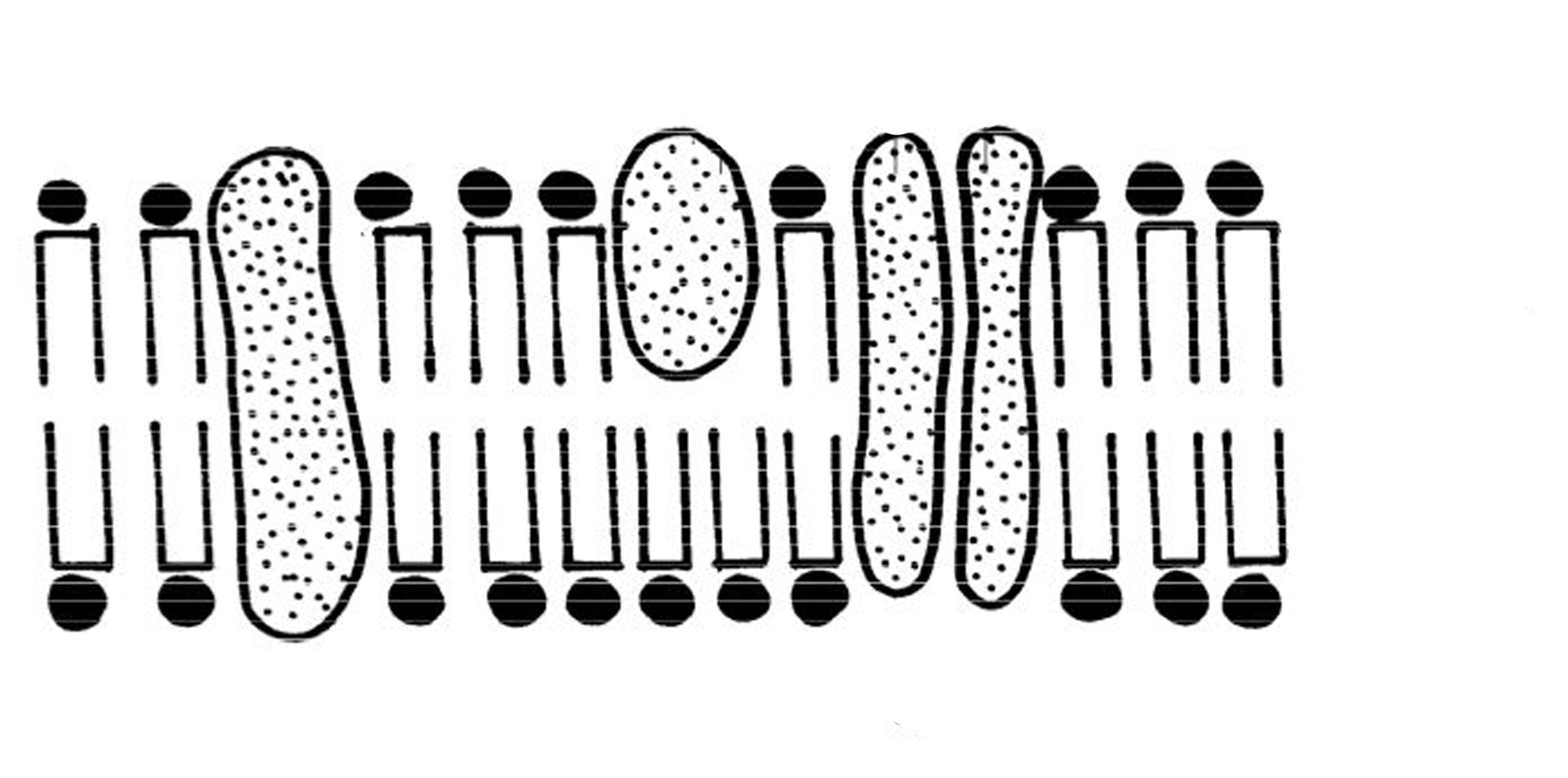
**ATP Energy Worksheet**

1. The process of respiration produces energy that is stored in chemical form (chemical energy). Explain what this means.

2. Examine the diagram of a phospholipid bilayer with various proteins in it

(a lipoprotein structure):



Na1+

*OUT*

*(extra-cellular fluid)*

*IN*

*(cytoplasm)*

1. What would you add to this drawing to clearly indicate that it was active transport taking place? Draw it on the diagram.
2. Is this type of transport dependent on the [ ] gradient? Explain.

3. ATP is like a rechargeable battery. Explain this concept.

4. **THINK:** How does ADP ‘make its way’ back to the mitochondria to be recharged?