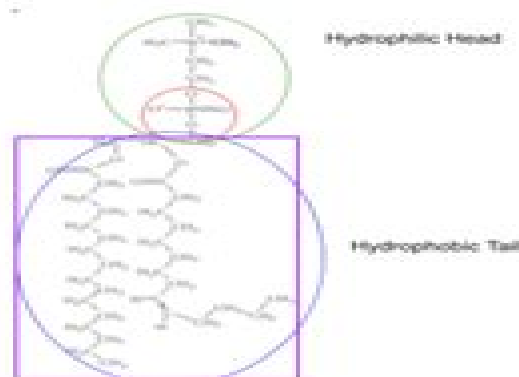


## Answers Pogil Activity: Membrane Structure

Refer to Model 1. Identify at least two organic functional groups in a phospholipid molecule.



- The remains of carboxyl in which fatty acids join glycerol, and the phosphate group.

2. Consider the term phospholipid.

a. What portion of the molecule in Model 1 is responsible for the "phospho-" part of the name?

- The phosphate group circled in red.

b. What portion of the molecule in Model 1 is responsible for the "-lipid" part of the name?

- Glycerol and two fatty acids circled in blue.

3. Part of a phospholipid is polar.

a. Circle the portion of the molecule in Model 1 that is polar.

- The head is hydrophilic, and rounded in green.

b. Would this portion of the phospholipid mix well with water? Explain your reasoning.

- Yes, being polar also means that it is hydrophilic, therefore soluble. The polar portion of the phospholipid would mix well with water as it is attracted to water (hydrogen bonds).

4. Part of a phospholipid is nonpolar.

# Pogil Answer Key Membrane Structure

**Evelyn Edward Bittar**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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**Experimental and Numerical Form-finding of Membrane Structure** Seng Loong Teng, 1997      **Special Issue on Membrane Structure** P. C. Caldwell, 1973      *Papers on Biological Membrane Structure* Daniel Branton, Roderic B. Park, 1968

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