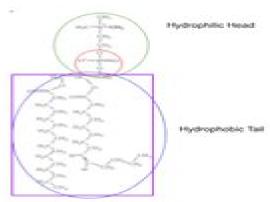
#### Answers Pogil Activity: Membrane Structure

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.
- 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.

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