


## How is an Oreo Cookie like a Section of the Cell Membrane?

1. Examine your Oreo cookie. Next study your drawing of the cell membrane (  ). Think about how the cell membrane and your cookie are similar.
2. Dip your cookie in the milk. Again, think about how the cell membrane and your cookie are similar.
3. Answer the following questions and label the cookie picture.
4. EAT YOUR COOKIE!

### Questions:

1. An Oreo is a bilayer of wafers and cream just like the cell membrane is a bilayer of phospholipids.
2. What part of the Oreo absorbed the milk? the wafers
3. What part of the Oreo would not absorb the milk? the cream
4. What part of a phospholipid molecule is most similar to the black cookie part?  
the polar hydrophilic glycerol part
5. What part of a phospholipid is most similar to the white filling? the nonpolar tail made out of fat
6. If you shoved a jellybean through the top of your cookie so that it stuck out on both sides, the jellybean would resemble what part of a cell membrane?  
transport proteins

Label the arrows below with these 2 terms: **polar region**, & **nonpolar fatty acids**

