

THURSDAY OCTOBER 27TH

QUIZ 3.1 HAS BEEN ENTERED FOR QUARTER 2 GRADE

STARTER: CREATE A NAME FOR EACH OF THESE REAL PHOBIAS! (HINT: THINK LATIN!)

SCRIPTOPHOBIA

FEAR OF WRITING IN PUBLIC

NUMEROPHOBIA

FEAR OF NUMBERS

BIBLIOPHOBIA

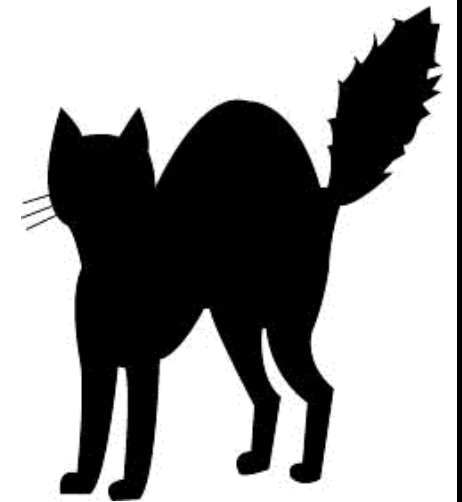
FEAR OF BOOKS

FELINOPHOBIA

FEAR OF CATS

FRIGOPHOBIA

FEAR OF COLD OR COLD THINGS



**THURSDAY
OCTOBER 27TH**

FINISH POSTER!

YOU MUST HAVE AT LEAST TEN ANALOGIES ON YOUR POSTER!

MUST BE COLORED AND FUN!

IF YOUR GROUP FINISHES WITH TIME LEFT...

PICK UP TWO SETS OF CELL TABOO & PLAY IN PAIRS

Monday October 31st

WELCOME TO QUARTER 2!

3.1 TUTORING ON TUESDAY AFTER SCHOOL

QUIZ 3.1 RETAKES HAPPENING NOW!



STARTER:

REMEMBER WAAAAY BACK TO OUR BUBBLE ACTIVITY...

WHAT ARE SOME PROPERTIES OF THE CELL MEMBRANE YOU EXPLORED?

Class Bizz

RETAKE SCHEDULE:

MONDAY - THURSDAY BEFORE SCHOOL @ 7:30AM

MONDAY - THURSDAY AFTER SCHOOL @ 2:50PM

PLAN WISELY!

QUARTER 2 CITIZENSHIP:

WILL SEE IN GRADEBOOK

ITEM WILL NOT CALCULATE INTO YOUR GRADE



3.2 Cell Membrane Structure

STANDARD OBJECTIVES:

- I CAN DIAGRAM THE STRUCTURE OF THE CELL MEMBRANE
- I CAN DESCRIBE THE PROPERTIES AND FUNCTIONS OF THE CELL MEMBRANE



3.2 Cell Membrane Structure

FUNCTION OF THE CELL MEMBRANE

- **FLUID MOSAIC MODEL**

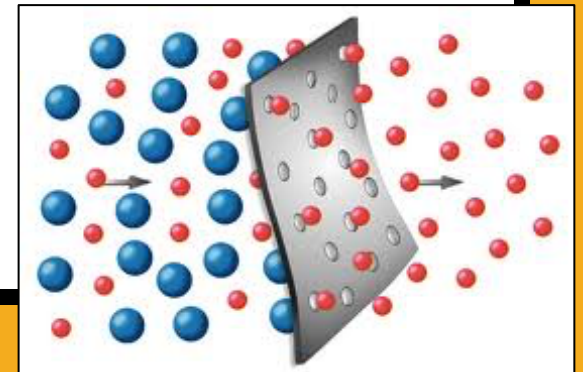
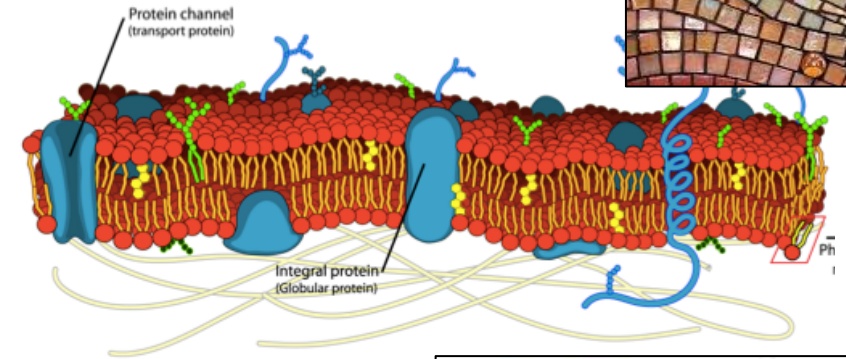
FLEXIBLE AND FLUID (CONSTANTLY MOVING)

MANY COMPONENTS STUCK IN MEMBRANE

- **SEMI-PERMEABLE BARRIER**

ALLOWS ONLY SMALL UNCHARGED MOLECULES THROUGH

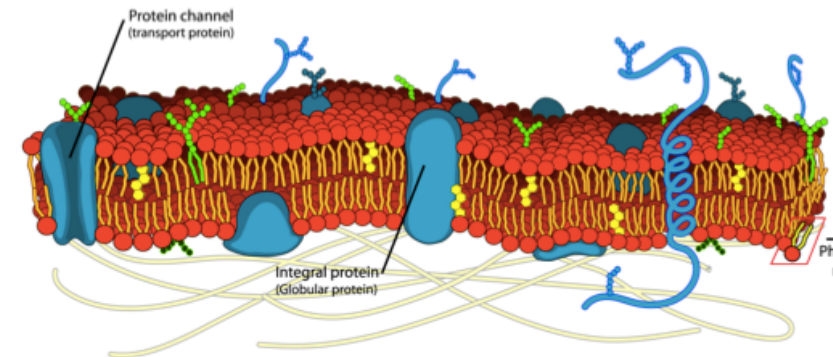
LARGE AND/OR CHARGED MOLECULES MUST GET THRU OTHER WAYS



3.2 Cell Membrane Structure

PROPERTIES OF THE CELL MEMBRANE

- MEMBRANE IS FLUID AND FLEXIBLE
- MEMBRANE CAN REPAIR ITSELF
- ORGANELLES HAVE THEIR OWN MEMBRANES LIKE THE CELL MEMBRANE
- MEMBRANE PROTEINS HAVE SPECIAL FUNCTIONS WITHIN THE MEMBRANE

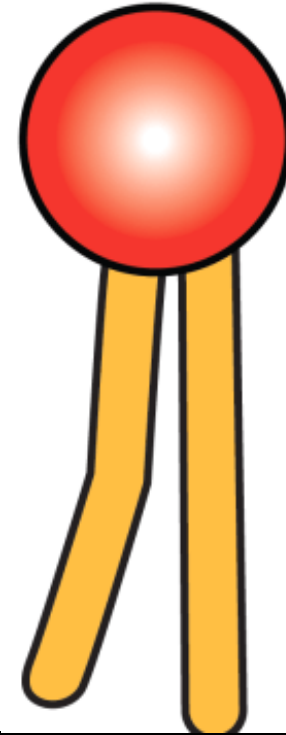


3.2 Cell Membrane Structure

MOLECULE OF THE MEMBRANE: PHOSPHOLIPID

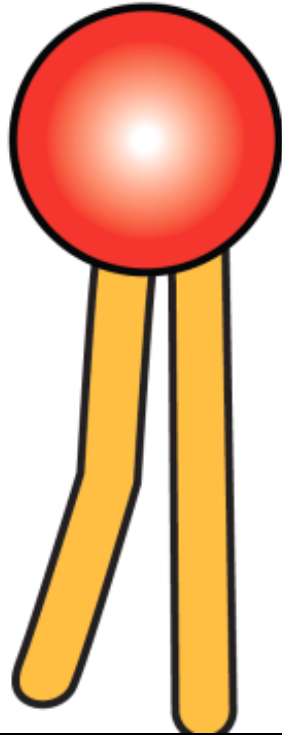
PHOSPHATE HEAD:

- MADE UP OF OXYGEN & PHOSPHORUS
- OXYGEN CREATES POLARITY
- HYDROPHILIC: ATTRACTED TO POLAR WATER
- FACE TOWARD WATERY ENVIRONMENTS



3.2 Cell Membrane Structure

MOLECULE OF THE MEMBRANE: PHOSPHOLIPID



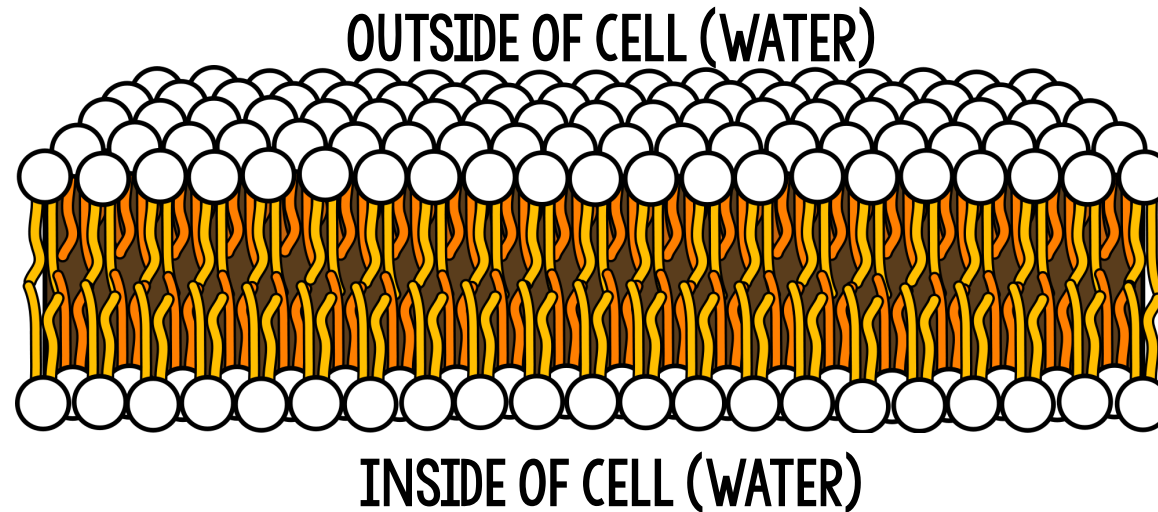
LIPID TAILS:

- MADE UP OF FATTY ACIDS
- NONPOLAR LIKE OTHER LIPIDS
- HYDROPHOBIC: REPELLED BY POLAR WATER
- FACE AWAY FROM WATERY ENVIRONMENTS

3.2 Cell Membrane Structure

PHOSPHOLIPID BILAYER

MEMBRANE IS ARRANGED IN TWO LAYERS OF PHOSPHOLIPIDS

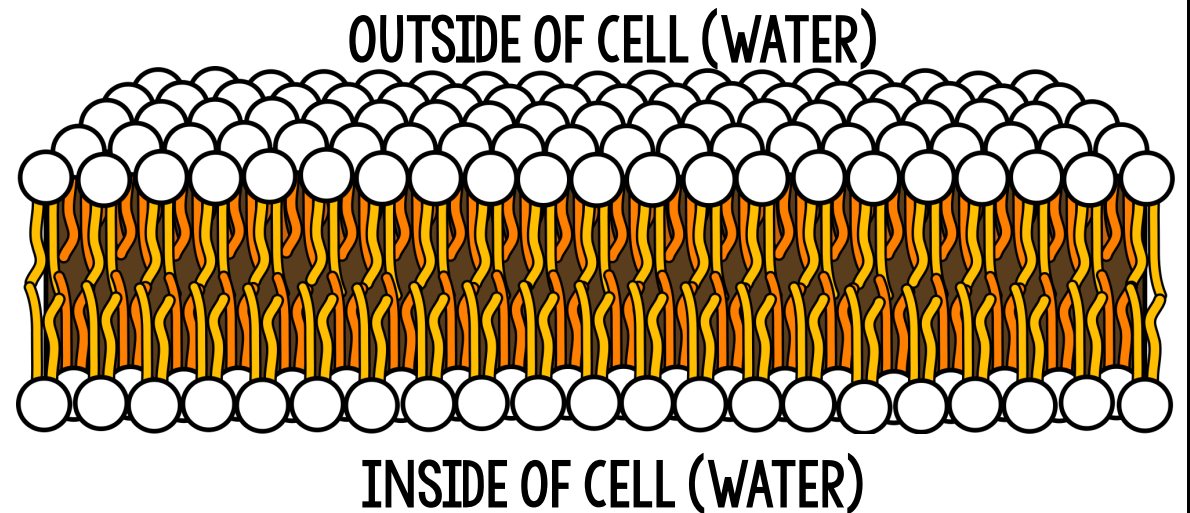


3.2 Cell Membrane Structure

PHOSPHOLIPID BILAYER

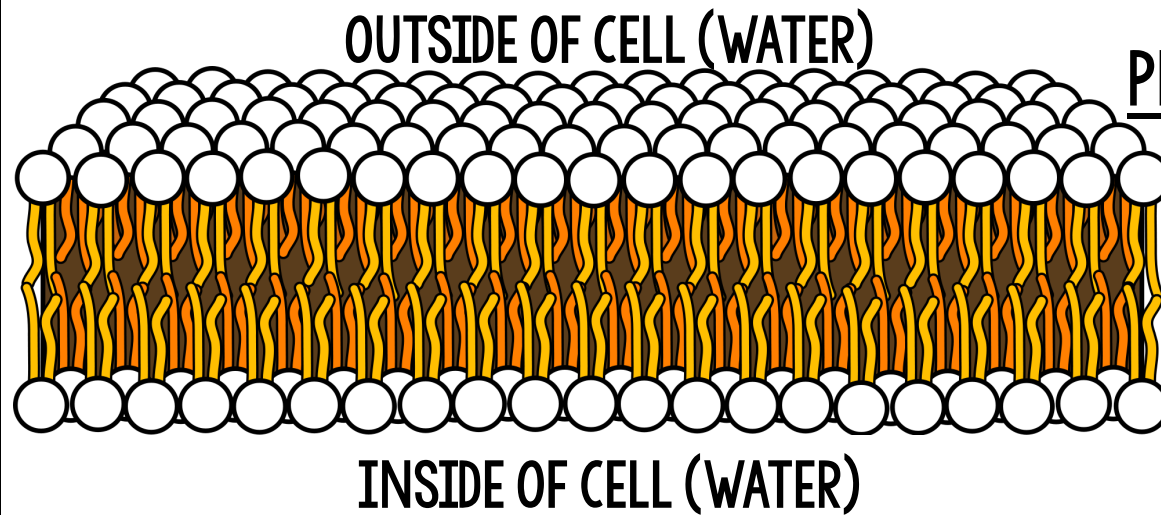
LIPID TAILS:

- FACE TOWARD EACH OTHER AWAY FROM WATERY INSIDE & OUTSIDE
- FACE AWAY DUE TO HYDROPHOBIA
- AREA OF NONPOLARITY



3.2 Cell Membrane Structure

PHOSPHOLIPID BILAYER



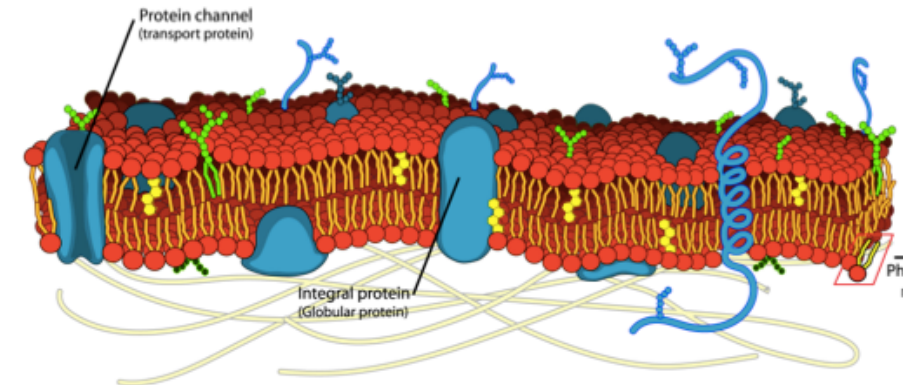
PHOSPHATE HEADS:

- FACE TOWARD OUTWARD TO WATERY INSIDE & OUTSIDE
- FACE TOWARD DUE TO HYDROPHILIA
- AREA OF POLARITY

3.2 Cell Membrane Structure

OTHER MOLECULES IN THE MEMBRANE:

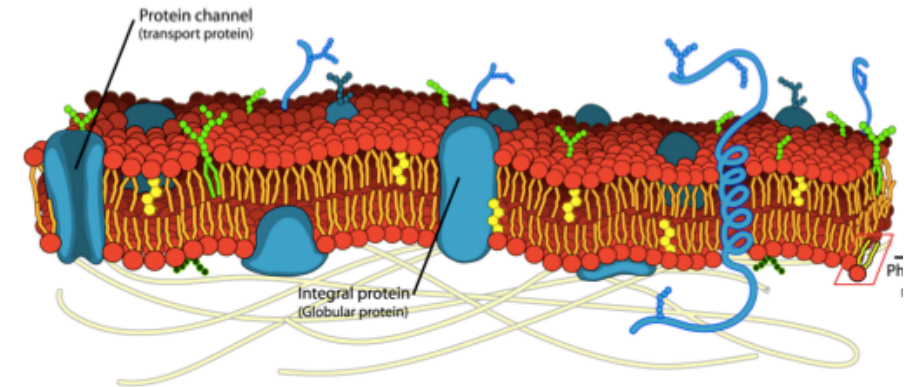
- **TRANSPORT CHANNEL PROTEINS**
 - TUBES THAT CREATE OPENINGS THROUGH THE MEMBRANE
 - ALLOW LARGE AND/OR CHARGED MOLECULES THROUGH



3.2 Cell Membrane Structure

OTHER MOLECULES IN THE MEMBRANE:

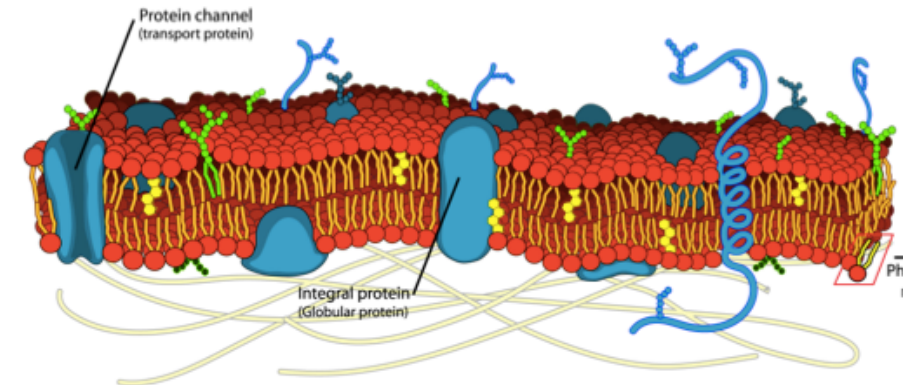
- **OTHER MEMBRANE PROTEINS**
 - ONLY ON INNER OR OUTER SURFACE
 - ENZYMES FOR CHEMICAL REACTIONS ON INSIDE OR OUTSIDE OF CELL



3.2 Cell Membrane Structure

OTHER MOLECULES IN THE MEMBRANE:

- **GLYCOPROTEINS**
 - MADE UP OF CARBOHYDRATES & PROTEINS
 - USED FOR CELL-TO CELL COMMUNICATION

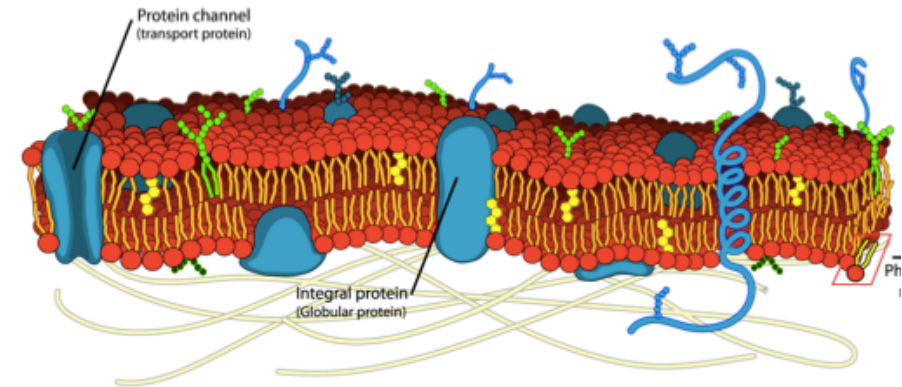


3.2 Cell Membrane Structure

OTHER MOLECULES IN THE MEMBRANE:

- **CHOLESTEROL**

- TYPE OF LIPID THROUGHOUT BILAYER
- HELPS MEMBRANE STAY FLUID/FLEXIBLE
- STABILIZES MEMBRANE



3.2 Cell Membrane Structure

OTHER MOLECULES IN THE MEMBRANE:

- **CYTOSKELETON**
 - NETWORK OF PROTEINS TO GIVE CELL & MEMBRANE SHAPE & STRUCTURE

