

CELL UNIT:

CELL FUNCTION	CELL STRUCTURE
1. DIGEST – BREAKDOWN	
2. MAKE RIBOSOMES	
3. BUILD PROTEINS	
4. CONTROL CENTER – BRAIN	
5. TRANSPORT (WITHIN CELL)	
6. PROTECT PLANT CELLS	
7. SELECTIVELY PERMEABLE	
8. POWERHOUSE – ATP	
9. STORE PIGMENTS – POSSIBLY PHOTOSYNTHESIS	
10. CELL ACTIVITIES – THROUGHOUT THE CELL	
11. PACKAGE – DELIVER – SECRETE	
12. STORAGE (WATER – FOOD – WASTE)	

CELL STRUCTURE	DIAGRAM DESCRIPTION
1.	LARGE LAKE
2.	BIG CIRCLE
3.	SMALLER CIRCLE INSIDE NUCLEUS
4.	OVAL WITH SPOTS OR PLATES
5.	OVAL WITH WAVY LINES (CRISTAE)
6.	TINY DOTS
7.	THROUGHOUT THE CELL
8.	STACKED PANCAKES
9.	TUBES OR CANALS (SOMETIMES COVERED WITH RIBOSOMES)
10.	THIN BOUNDARY (INNER?)
11.	THICK BOUNDARY (OUTER?)
12.	SMALL CIRCLE (RANDOMLY IN CELL)

DIFFUSION: NOTES

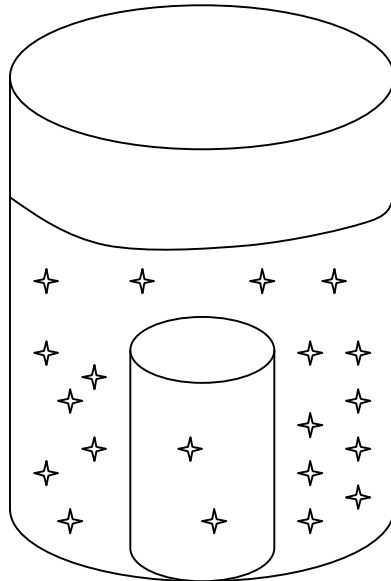
DEFINE DIFFUSION:

FOOD COLORING DEMO: (DESCRIBE WHAT HAPPENS)

BAKING SODA DEMO: (DESCRIBE WHAT HAPPENS)

DIFFUSION: DRAWS ARROWS SHOWING THE DIRECTION THE CO₂ GAS WILL TRAVEL IN DIFFUSION.

- **THE STARS REPRESENT CARBON DIOXIDE GAS (CO₂)**



THERE ARE 20 TOTAL STAR (CO₂ MOLECULES) WHEN EQUILIBRIUM IS REACHED HOW MANY WILL BE IN EACH CONTAINER?

BIG CONTAINER = _____ SMALL CONTAINER = _____

- **WHY IS THIS IMPORTANT? – THIS IS ONE WAY CELLS CAN MOVE MATERIAL IN OR OUT OF THE CELL**
- **EXAMPLE: THIS IS HOW YOUR RED BLOOD CELLS MOVE OXYGEN INTO YOUR RED BLOOD CELLS FROM YOUR LUNGS!**

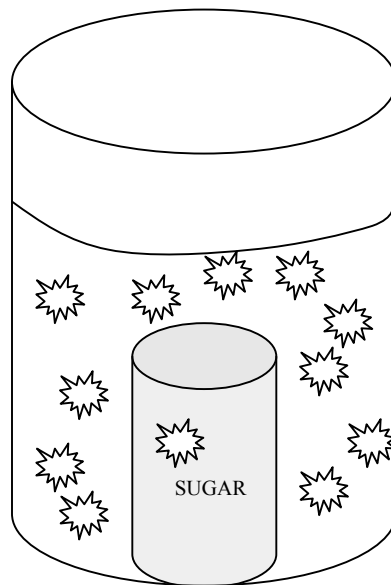
OSMOSIS: NOTES

DEFINE OSMOSIS:

SUGAR DEMO: (DESCRIBE WHAT HAPPENS)

OSMOSIS: DRAWS ARROWS SHOWING THE DIRECTION THE WATER WILL TRAVEL IN OSMOSIS.

- THE  REPRESENT WATER!



- **WHY IS THIS IMPORTANT? – THIS IS ONE WAY CELLS CAN MOVE WATER IN OR OUT OF THE CELL**
- **EXAMPLE: THIS IS HOW PLANTS WILL MOVE WATER INTO ROOTS TO PREVENT THE PLANT FROM WILTING!**

ORGANIZATION:

CELLS → TISSUES → ORGAN → ORGAN SYSTEM → ORGANISM

GIVE AN EXAMPLE OF EACH:

CELL _____ **TISSUE** _____ **ORGAN** _____

ORGAN SYSTEM _____ **ORGANISM** _____