

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) | |
| 13. HAIR-LIKE (FILTER – MOVE) | |
| 14. WHIP-LIKE (MOVEMENT) | |

| 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) |

TRANSPORT:

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| 1. | CELL GAIN WATER – POSSIBLY BURST |
| 2. | CELL LOSES WATER – SHRIVELS |
| 3. | DIFFUSION OF WATER |
| 4. | SOLUTE FROM HIGH CONCENTRATION TO LOW CONCENTRATION |
| 5. | A SOLUTION THAT IS MORE CONCENTRATED |
| 6. | A SOLUTION THAT IS LESS CONCENTRATED |
| 7. | SOLUTIONS WITH EQUAL CONCENTRATIONS |
| 8. | SOLUTIONS THAT HAVE EQUAL EXCHANGE OF MOLECULES |
| 9. | TRANSPORT WITHOUT ENERGY |
| 10. | TRANSPORT WITH ENERGY |
| 11. | MOVE MATERIAL INTO A CELL |
| 12. | MOVE MATERIAL OUT OF A CELL |
| 13. | WATER PRESSURE IN A PLANT CELL |
| 14. | ASSISTED DIFFUSION |
| 15. | LARGE MOLECULE MOVED IN ACTIVE TRANSPORT |
| 16. | SMALL MOLECULE MOVED IN ACTIVE TRANSPORT |
| 17. | PROTEIN USED IN FACILITATED DIFFUSION |

OTHER THINGS TO THINK ABOUT & STUDY:

- **CELL THEORY**
- **SCIENTIST ASSOCIATED WITH CELLS & CELL THEORY**
- **COMPARE PLANT & ANIMAL CELLS**
- **APPLICATION & ANALYSIS OF CELLS (QUESTIONS ON YOUR CELL DIAGRAM)**
- **APPLICATION & ANALYSIS OF TRANSPORT (DEMOS & EXAMPLES ON NOTES)**
- **MULTICELLULAR ORGANIZATION (CELLS, TISSUES, ORGANS, SYSTEM)**
- **ACTIVE TRANSPORT?**
- **NUCLEOLUS?**
- **CELL SIZE, SHAPE, SURFACE AREA?**
- **READING – NOTES – QUESTIONS?**