**Unit 3: Cells, Transport, Photosynthesis & Cellular Respiration Review Stations**

**Station 1: Basic Cells**

*Organize the Levels of Cell Organization from SMALLEST to LARGEST:*

**Tissues organisms cells organ systems organs**

1. \_\_\_\_\_\_\_\_ 🡪 2. \_\_\_\_\_\_\_\_\_ 🡪 3. \_\_\_\_\_\_\_\_\_\_ 🡪 4. \_\_\_\_\_\_\_\_\_\_ 🡪 5. \_\_\_\_\_\_\_\_\_\_\_\_\_

A group of cells with the same function is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

A group of tissues combine to form an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2) Magnification: Calculate the LOWEST magnification: \_\_\_\_\_\_\_\_\_\_\_\_\_

 Calculate the HIGEST magnification: \_\_\_\_\_\_\_\_\_\_\_\_\_\_

3) A student examines a cell under the microscope and determines that it is a eukaryote. List two structures the student identified in order to come to this conclusion.

4) The whole point of a cell is to make \_\_\_\_\_\_\_\_\_\_\_\_

5) PRO= \_\_\_\_\_

**Station 2: Cell Organelles**

**1.** Sketch a plant cell and an animal cell. Label the following organelles in each of your sketches above: *nucleus, ribosome, cell membrane, cell wall, cytoplasm, DNA, mitochondria, vacuoles*

**3.**

**4.** What is the function of

Ribosomes:

Cell wall:

Nucleus:

Vacuole:

Golgi body:

Endoplasmic reticulum:

**Station 4: Cell Communication**

**1.**

**2.**

**3.**

**Station 3: Cell Specialization**

**1.**

**2.**

**3.**

**4.**

**Station 5: Cell Membrane**

**1. 4.**

**2. 5.**

**3. Label the cell membrane:**



**Station 6: Transport**

**1.**

**2.**

**3.**

**4. Fill out letters A through D.**

|  |  |  |  |
| --- | --- | --- | --- |
| **Transport** | **Direction** | **Energy?** | **Protein?** |
|  | Particles from High to Low | NO | NO |
|  | Particles from Low to High | YES | YES |
|  | Particles from High to Low | NO | YES |
|  | Water from High to Low | NO | NO |

**Station 7: Diffusion & Transport Practice**

**Label the following pictures as** Diffusion, Osmosis, Facilitated Diffusion, or Active Transport. **Then show which direction the materials will move!**

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**Shrink or Swell?**

1. Water moves IN? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Water moves OUT? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Make a prediction**

**1.**

**2.**

**Station 8: Photosynthesis**

**1.**

**2.**

**3.**

**4**.

**Station 9: Cell Respiration**

**1.**

**2.**

**3.**

**4.**

**5.**

**Station 10: Aerobic vs. Anaerobic Respiration**

**1.**

**2.**

**3.**

**4.**

**5.**

**6.**

**7.**

**Station 11: Practice Questions**

**1.**

**2.**

**3.**

**Station 12: Practice Questions**

**1.**

**2.**

**3.**

**Station 13: Practice Questions**

**1.**

**2.**

**3.**



Unit 3 Crossword Puzzle

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|

|  |
| --- |
| **Across:** |
|

|  |  |
| --- | --- |
| **3.** | **describes an organism that is composed of more than one cell** |
| **7.** | **describes an organism that is composed of only one cell.** |
| **10.** | **something that gets dissolved in another substance** |
| **11.** | **when the amount of solutes on both sides of the membrane are the same.** |
| **12.** | **a byproduct of fermentation that causes muscle fatigue and soreness** |

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|  |
| --- |
| **Down:** |
|

|  |  |
| --- | --- |
| **1.** | **describes something that allows some things to pass through but not others.** |
| **2.** | **structures within a cell made from molecules that perform a particular task** |
| **4.** | **cells that contain a nucleus, membrane bound organelles, and chromosomal DNA** |
| **5.** | **a chemical that travels through the blood and allows cells to communicate.** |
| **6.** | **a single-celled organism lacking a nucleus, any membrane bound organelles, and has circular DNA** |
| **8.** | **a byproduct of fermentation by yeast** |
| **9.** | **a mixture of two or more substances where one is dissolved in the other.** |
| **10.** | **a cell that has no special job; a cell that has not yet differentiated.** |

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