

Name: _____

Date: _____ Period: _____

Station Activity: Cell Structure & Function – **Answer Key**

Station #1 – Cell City

- | | |
|-------------|-------------|
| 1. I | 6. A |
| 2. G | 7. D |
| 3. F | 8. B |
| 4. C | 9. E |
| 5. H | |



Station #2 – Parts of Cell

- | | |
|------------------------|----------------------------|
| 1. Ribosomes | 6. Nucleolus |
| 2. Mitochondria | 7. Cell Membrane |
| 3. Golgi body | 8. ER |
| 4. Cytoplasm | 9. Nuclear Membrane |
| 5. Lysosome | |

Station #3 – Functions of Cell Parts

- | | |
|-------------|-------------|
| 1. E | 4. G |
| 2. H | 5. B |
| 3. C | 6. F |

Station #4 – Cell Observation Lab

1. **C**
2. **E**
3. **B & E**
4. **Turn light energy into food (glucose)**
5. **D**

Station #5 – Path a Protein Takes

1. **Chromatin**
2. **Nucleus**
3. **Ribosome**
4. **ER**
5. **Golgi**
6. **Vesicle**
7. **Vacuole**

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Station #6 – Cell as a Factory!

1. **just like a security guard, the membrane controls what enters and exits**
2. **hammers break objects down as lysosomes break down waste, food, etc.**
3. **protein**
4. **chromatin**
5. **powerplant produces energy for city like the mitochondria make energy for cell**

Station #7 – Cell Shape

1. **creates protective outer boundary and shape for body (skin)**
2. **skin cells are flat to take shape of body and stack together to create boundary**
3. **nerve cells transmit messages through body**
4. **the extensions on the cell help with the transmission of messages**
5. **RBC are small and flexible enough to squeeze through tiny blood vessels**

Station #8 – Plant vs. Animal Cell

1. **cell wall**
2. **support and shape for plant cell**
3. **vacuole**
4. **plant: one large w/ water; animal: many filled with food**
5. **label 8**

Station #9 – Cell City Analogy

1. **town hall**
2. **scrap yard**
3. **special carts**
4. **widget**
5. **mitochondria**
6. **nucleolus**

Station #10 – Flashback to Experimental Variables

1. **type of activity before bed**
2. **time it takes to fall asleep**
3. Control = **No activity**
4. **Listening to music helped Alison fall asleep the fastest**