**Chapter 7 Cell Structure & Function Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Section 7.1 “Life is Cellular”**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ living \_\_\_\_\_\_\_\_\_**
3. **\_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **Robert \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (mid-1600s)**
6. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sliver of \_\_\_\_\_\_\_\_\_\_\_\_\_**
7. **Saw “row of \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ “**
8. **\_\_\_\_\_\_\_\_\_\_\_\_\_ the term \_\_\_\_\_\_**
9. **\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_**
10. **(1839) Theodor \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & Matthias \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**“\_\_\_\_\_ living \_\_\_\_\_\_\_\_ are \_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_”**

1. **(50 yrs. Later) Rudolf \_\_\_\_\_\_\_\_\_\_\_\_**

**“ \_\_\_\_\_\_\_ cells \_\_\_\_\_\_\_\_\_\_ from \_\_\_\_\_\_\_\_\_\_”**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of Cell \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **All \_\_\_\_\_\_\_\_\_ things are \_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_**
3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ living \_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_ and function of all \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the \_\_\_\_\_\_\_**
4. **All \_\_\_\_\_\_\_\_\_ arise from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells ( this \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ discarded the \_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ generation)**

**Cell Sizes**



1. **\_\_\_\_\_\_\_\_\_ Have Large \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Area-to-\_\_\_\_\_\_\_\_\_\_\_\_\_ Ratio**



1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of All \_\_\_\_\_\_\_**
2. **A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **Protoplasm(\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) – cell \_\_\_\_\_\_\_\_\_\_\_ in \_\_\_\_\_\_\_\_\_\_\_ fluid**
4. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ --- structures for \_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_ with \_\_\_\_\_\_**
6. **Cell Types**
7. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
8. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Prokaryotic Cells**

1. **No \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bound \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_ = region of DNA \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ not bound by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **\_\_\_\_\_\_ type of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Eukaryotic Cells**

1. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bound by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **Include \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_ cells**
3. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ many organelles (miniature organs inside the cell)**
4. **Types of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Light \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ --- use a \_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_ objects in steps. Can \_\_\_\_\_\_\_\_\_ up to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ times.**
6. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Microscopes ---- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ in the 1930s and 1940s**
7. **This \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ uses a \_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_ structures up to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ times their \_\_\_\_\_\_\_\_\_\_\_\_ size.**
8. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ must be examined in a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.**