**Cell Cycle**

**Cell size is limited:**

1. Ratio of surface area to volume \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Transporting substances
3. Communicating within cell

**Cell Cycle** - A cycle of growing and dividing

**3 Main Stages**

1. Interphase
2. Mitosis
3. Cytokinesis
4. **Interphase** – three stages
5. **\_\_\_\_\_\_\_\_\_\_\_\_**

* Cell Grows
* Caries out normal functions
* Prepares to replicate DNA

1. **\_\_\_\_\_\_\_\_\_\_\_\_** copies DNA
2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- relaxed DNA
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- DNA in X shape
4. **\_\_\_\_\_\_\_\_\_\_\_\_\_**

* Prepares for ÷ of nucleus
* Microtubules formed
* Inventories cell parts

1. **Mitosis** – nuclear material ÷ and separate
2. **Cytokinesis** - cell ÷