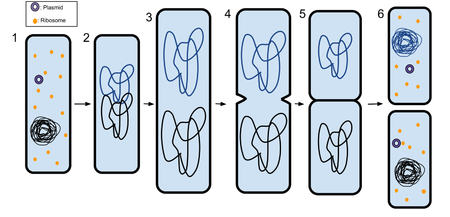
**Cell REPRODUCTION (a STERNGRR process!)**

[](http://en.wikipedia.org/wiki/File:Binary_Fission.png)

Prokaryotic cells:

**Why do cells divide?**



\_\_\_\_\_\_\_\_\_\_\_\_\_

or “body” cells.

**MITOSIS:**

Eukaryotic cells:

Doubled

chromosome

**The Cell Cycle**

Mitosis

G2

G1

S

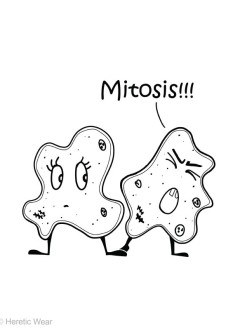
**Mitosis:**

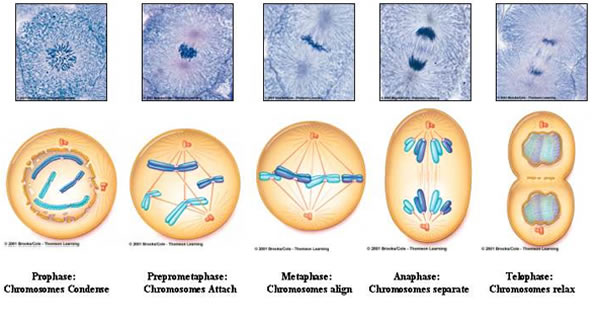
46

\_\_\_

\_\_\_

**Interphase:**

[](http://hereticwear.com/product/biology-t-shirt-mitosis/)

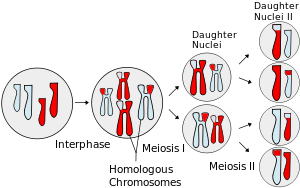


Uncontrolled cell division:

\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_

**REPRODUCTION (of organisms) depends on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_!**

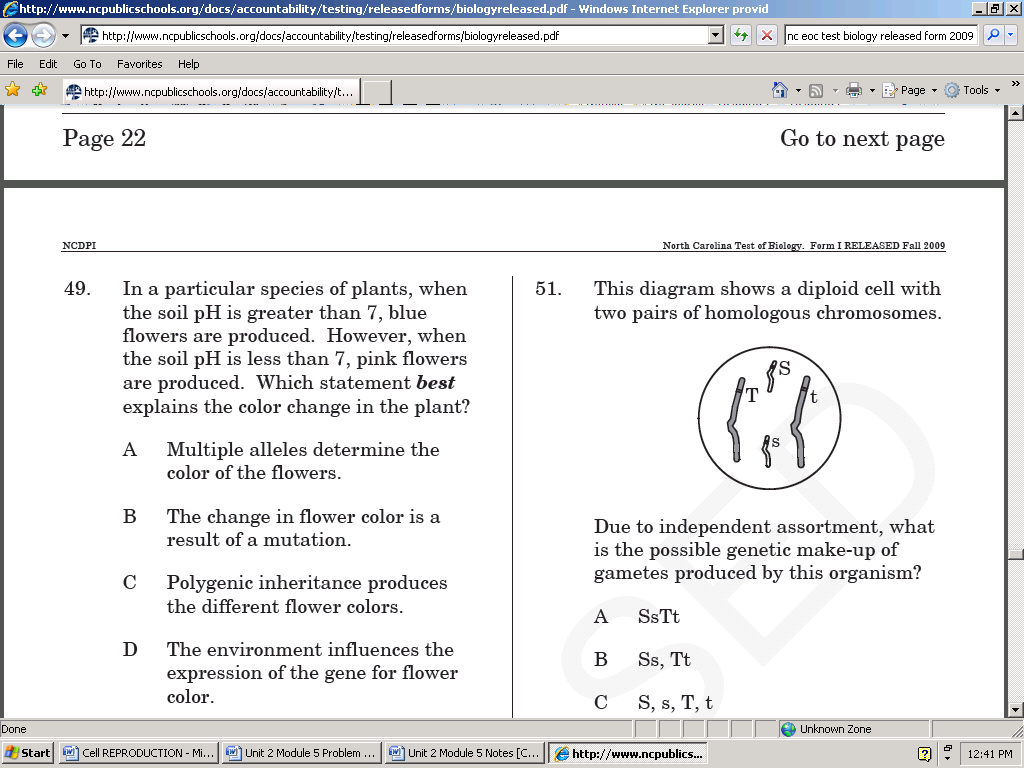
|  |  |
| --- | --- |
| **Asexual** | **Sexual** |
| Parents \_\_\_\_\_\_\_\_\_\_\_  Offspring \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Cell division \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  12  TYPES of asexual reproduction:  1.  2.  3.  4.  5. | Parents \_\_\_\_\_\_\_\_\_\_\_\_  46  Offspring \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Cell division \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **MEIOSIS**  Produces GAMETES  Fertilization:  Cons:  + =    Pros:  \_\_\_\_\_\_ \_\_\_\_\_\_\_ \_\_\_\_\_\_\_  (haploid) (haploid) (diploid) |

[](http://en.wikipedia.org/wiki/File:Meiosis_Overview.svg)

**INDEPENDENT ASSORTMENT**

Another source of genetic variation

Ex: What are the possible gametes that will be produced from this diploid cell?



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**MEIOSIS**