

# Basic Genetics Unit Notes

When all else fails – Study the online notes! [www.goscienceseven.com](http://www.goscienceseven.com)

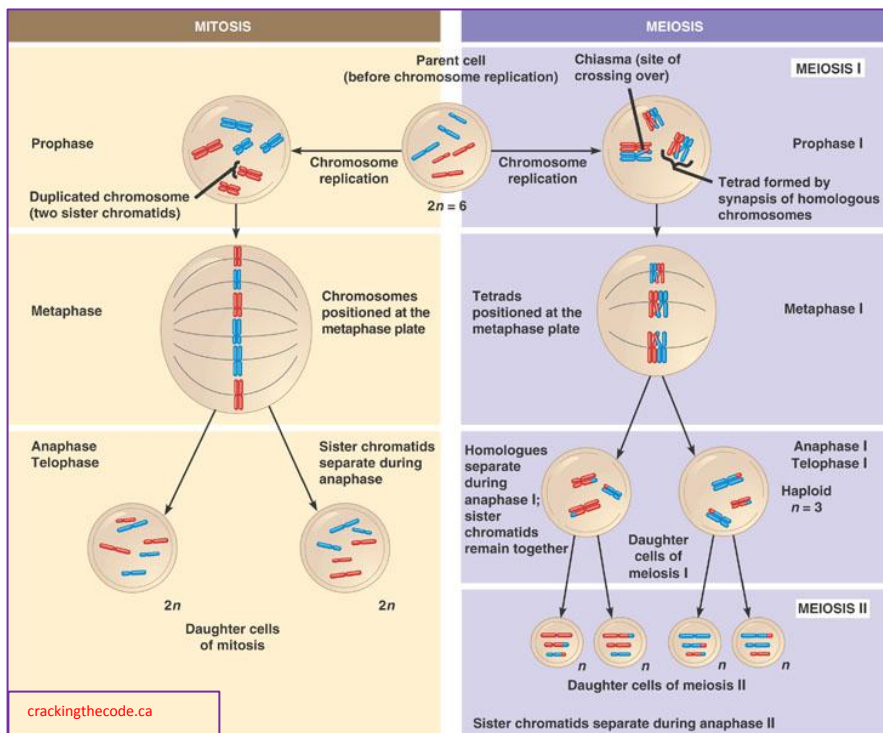
Name \_\_\_\_\_

Period \_\_\_\_\_

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## Data Table Two – Sexual vs. Asexual Reproduction

| Name    | DNA | Process | Advantages | Disadvantages |
|---------|-----|---------|------------|---------------|
| Sexual  |     |         |            |               |
| Asexual |     |         |            |               |



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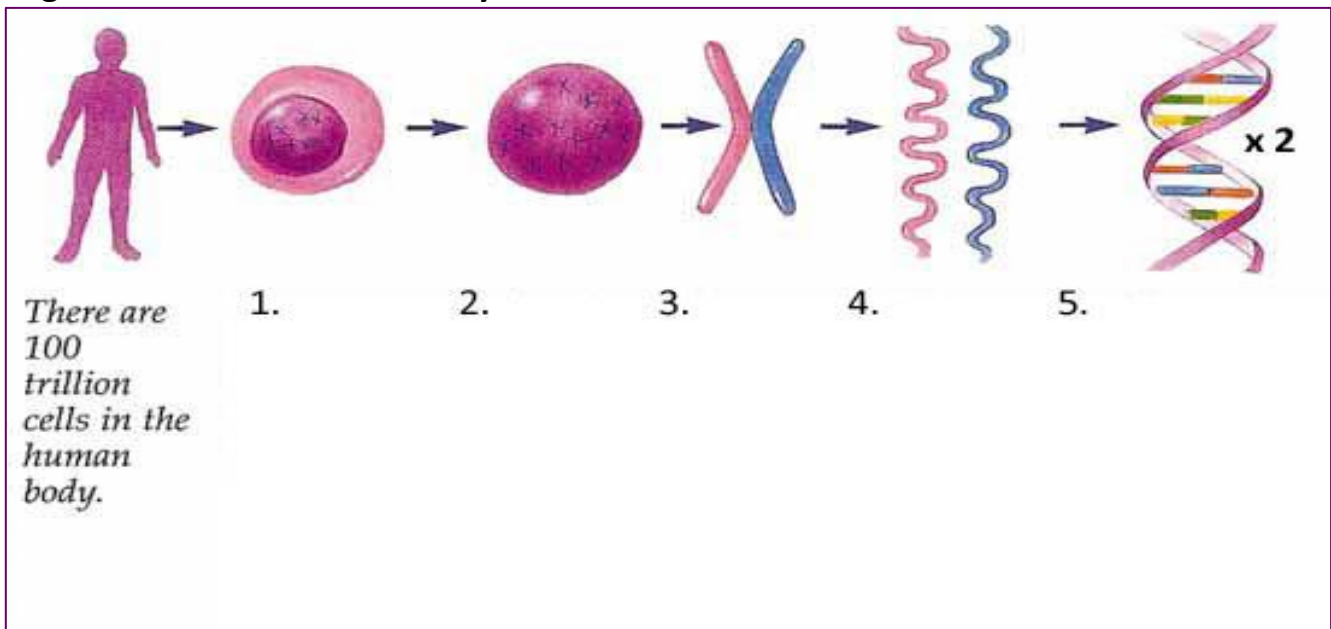
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| Data Table One – Types of Cell Division |            |                    |         |
|---|------------|--------------------|---------|
| Name                                    | Definition | Where Done in body | Purpose |
| Mitosis                                 |            |                    |         |
| Meiosis                                 |            |                    |         |

## Organization from Human Body to DNA



### Genetic Organization

1. Chromosomes are made of \_\_\_\_\_.
2. Humans have \_\_\_\_\_ in most cells. That's \_\_\_\_\_ pairs.
3. One of each chromosome is from the \_\_\_\_\_. One each is from the \_\_\_\_\_.
4. The \_\_\_\_\_ partner determines the offspring's gender.
5. If the 23rd pair is \_\_\_\_\_ the offspring is a \_\_\_\_\_.
6. If the 23<sup>rd</sup> pair is \_\_\_\_\_ the offspring is a \_\_\_\_\_.

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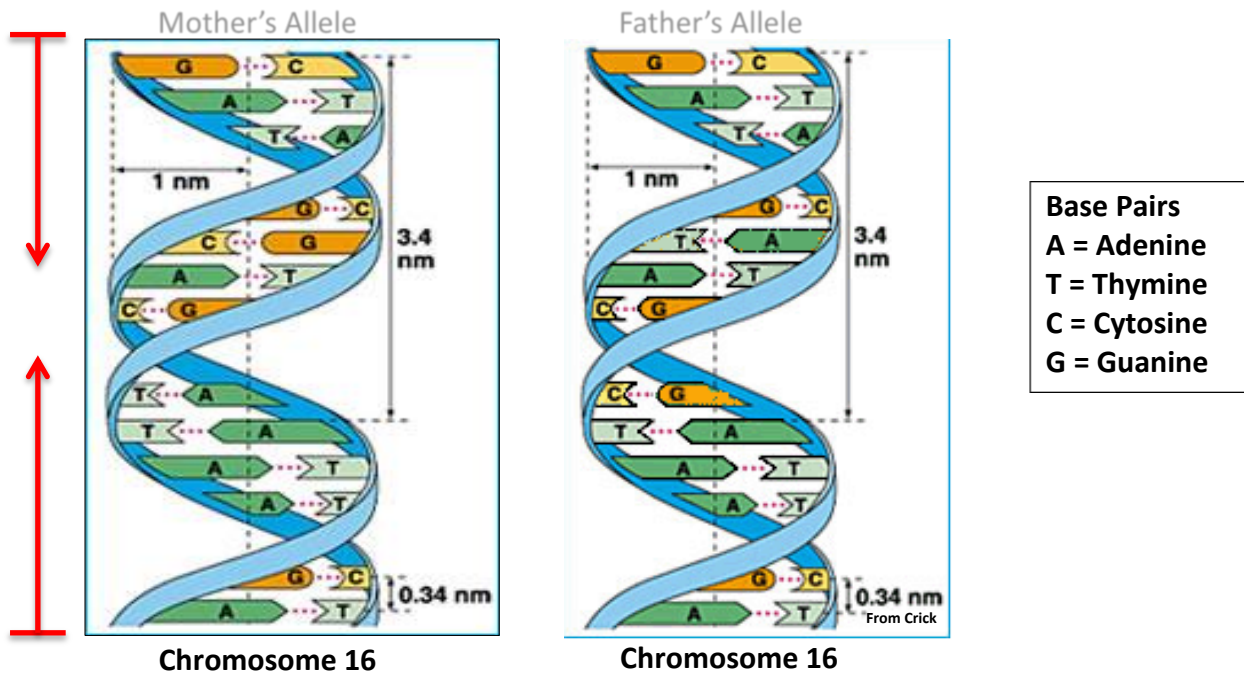
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## Genes, Proteins and chemical reactions. (3 slides)

1. Genes code for \_\_\_\_\_.
2. For proteins \_\_\_\_\_ is everything!
3. Proteins react together properly if each is the correct \_\_\_\_\_.
4. It's like a \_\_\_\_\_ fitting in a \_\_\_\_\_.
5. If the protein is the correct \_\_\_\_\_ the chemical reaction proceeds
6. If the protein is very slightly wrong, the reaction proceeds \_\_\_\_\_.
7. If a protein is the wrong shape the reaction the \_\_\_\_\_.

Two portions of DNA in a cell nucleus. One chromosome is from the female, the other is from male



## Alleles and Sexual Reproduction

1. The male and female partners both give \_\_\_\_\_ of \_\_\_\_\_ type of chromosome to each \_\_\_\_\_.
2. Alleles are like different \_\_\_\_\_ of the same \_\_\_\_\_.
3. When there are two alleles present, one is the \_\_\_\_\_ allele and the other is called the \_\_\_\_\_ allele.
4. A \_\_\_\_\_ is a genetic characteristic like eye color, face shape, hammer toe...
5. The \_\_\_\_\_ is the genetic code for a trait in your genes
6. The \_\_\_\_\_ is what a particular trait ends up "looking" like. (Blue eyes, wavy hair)

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## Pedigree Practice

