

- There are three categories of mutations, depending on how much DNA is impacted
  - gene mutation affect one or a few nucleotides of one gene
  - chromosomal mutations affect many genes on one or more chromosomes
  - aneuploidy affects whole chromosomes

### WHAT ARE GENE MUTATIONS?

- Gene mutations may involve a single (or a few) nucleotides
  - They typically have less of an impact than chromosomal mutations, because they involve changes to the DNA on a smaller scale
    - Nucleotides vs genes

- There are 3 types of gene mutations:

- Substitution (or point mutation): One nucleotide is switched out (substituted) for another
  - Only 1 codon is affected



- Deletion: One or more nucleotides are missing from the DNA sequence
  - frameshift mutation
- Insertion: One or more nucleotides are added to the DNA sequence
  - frameshift mutation
- Indel: One or more nucleotides are deleted and one or more are added
  - frameshift mutation



# Mutations And Genetic Conditions Key

**J Spring**



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