Name:	Date:	

Genes and Chromosomes (Teacher Master)

Mendel's Ideas about Genes

Idea: Individuals have two copies of a gene for each trait. Different forms of the same gene are called alleles. Genes control how their traits will appear.

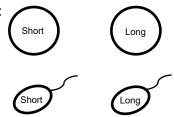
Picture:





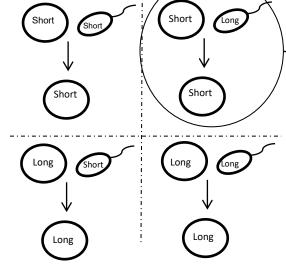
Idea: These two alleles separate when eggs and sperm are made. Each parent passes just one copy of a gene (or allele) to each offspring.

Picture:



Idea: Each offspring gets one allele from the father, and one allele from the mother.

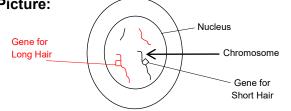
Picture:



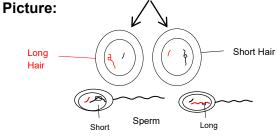
Sutton's Ideas about Chromosomes

Idea: Individuals have two copies of each chromosome. Genes that control traits are found on chromosomes.



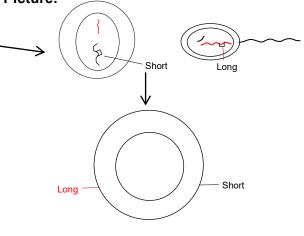


Idea: Chromosomes (and the genes on them) separate when eggs and sperm are made. Each parent passes one copy of each chromosome to each offspring.



Idea: Each offspring gets one copy of a chromosome and its genes from the father and one copy from the mother.

Picture:



*Note: Only one of the four examples from Mendel is shown here. Others would follow the same logic.