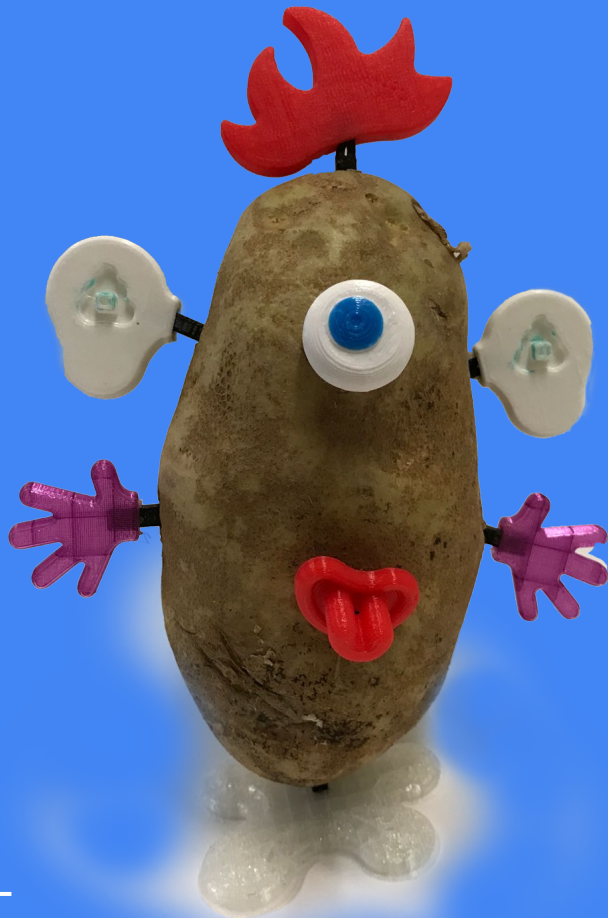


Alien Babies

An exploration of **inheritance**

Presented by Enter Name



Trait



Feature of a living thing

Phenotype



What you can see

Trait:

Phenotypes:

Hair colour



Eye colour



Tongue Roll



Ear Wax



Digit Ratio



Make an Alien Baby



Trait:

Phenotypes:

Hair colour



Eye colour



Tongue Roll



Ear Wax

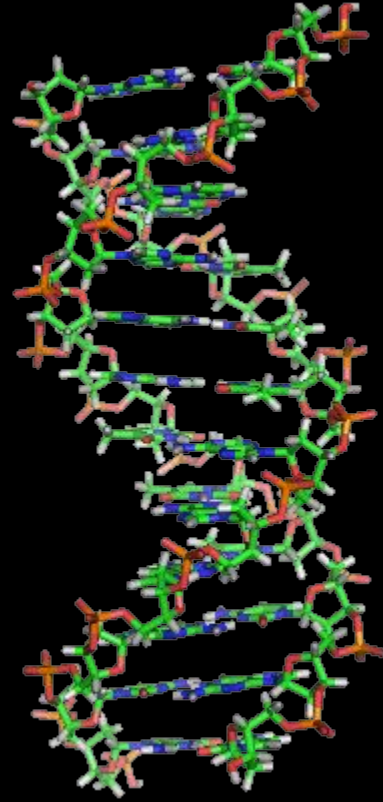


Digit Ratio

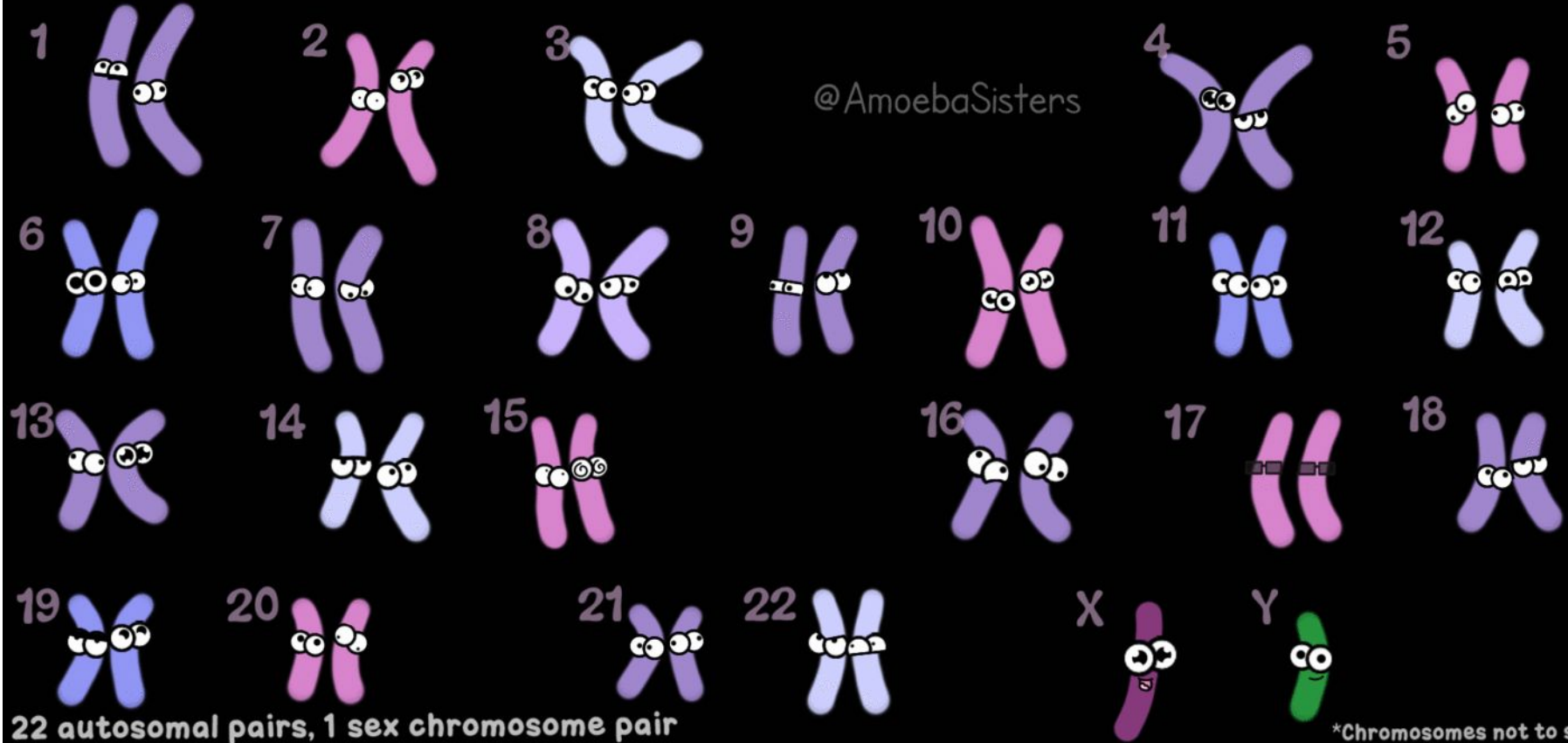


Fun facts about DNA





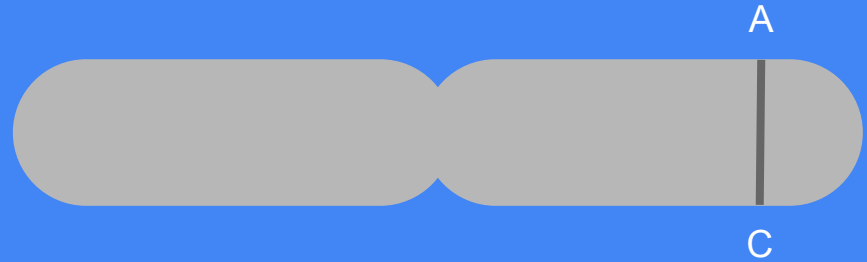
HUMAN KARYOTYPE: 46 CHROMOSOMES*



Variant*

Difference in DNA sequence

*Also referred to as an allele



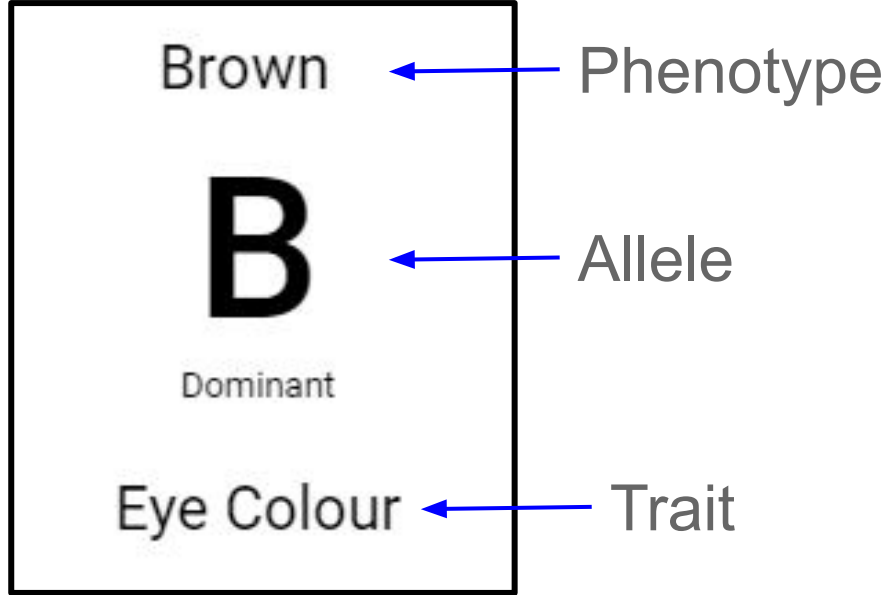
Genotype

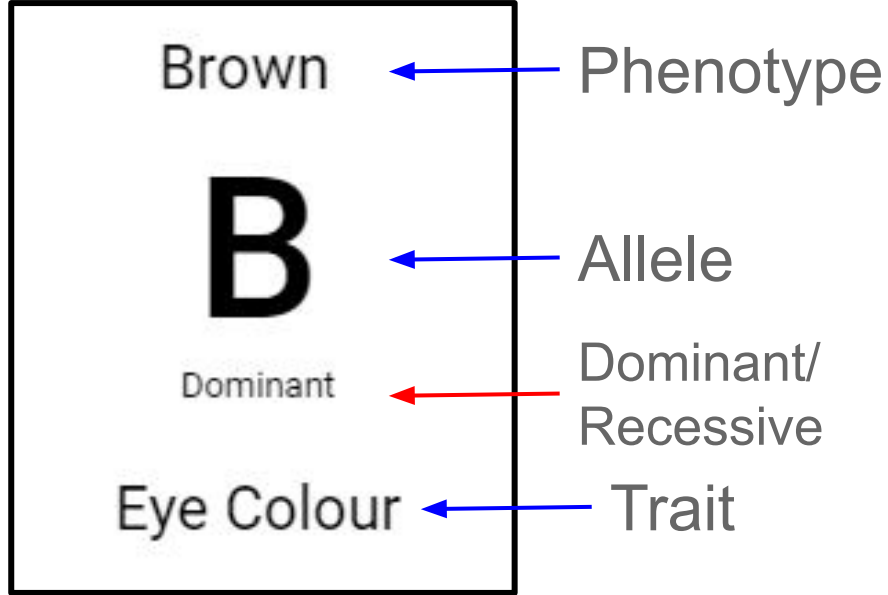


The combination of alleles

Explore trait cards







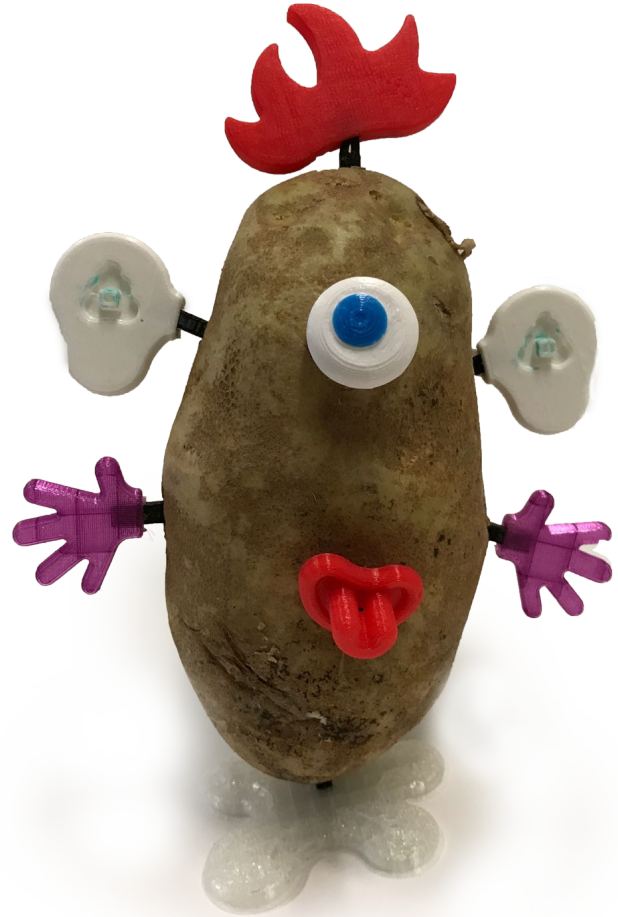
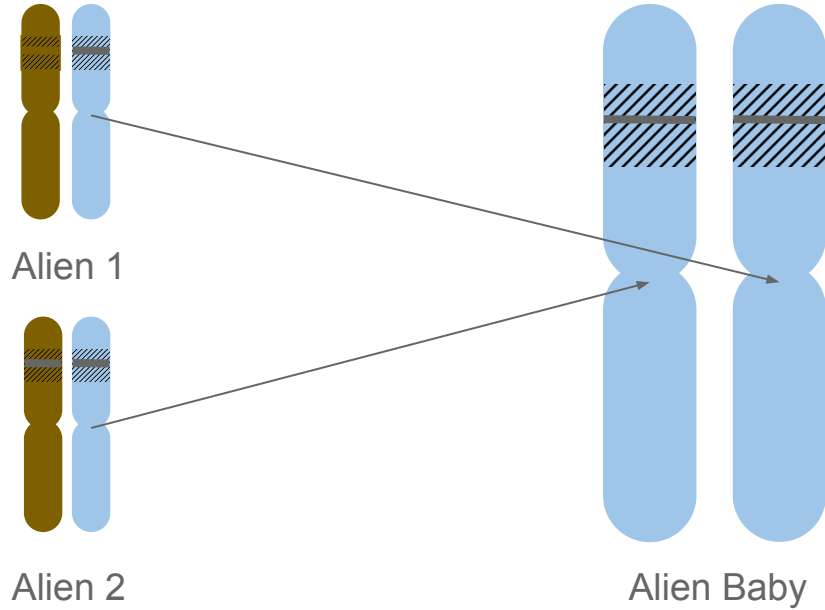
Alleles come in pairs



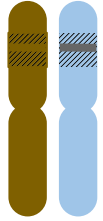
Alien Baby



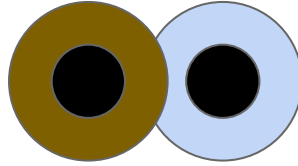
Alleles come in pairs



Dominance Relationships: Eye Colour



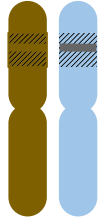
Alien 1



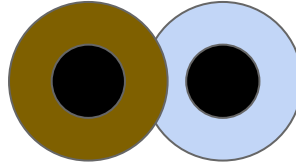
Brown eyes mask blue eyes

= Complete Dominance

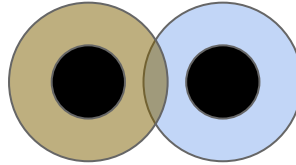
Dominance Relationships: Eye Colour



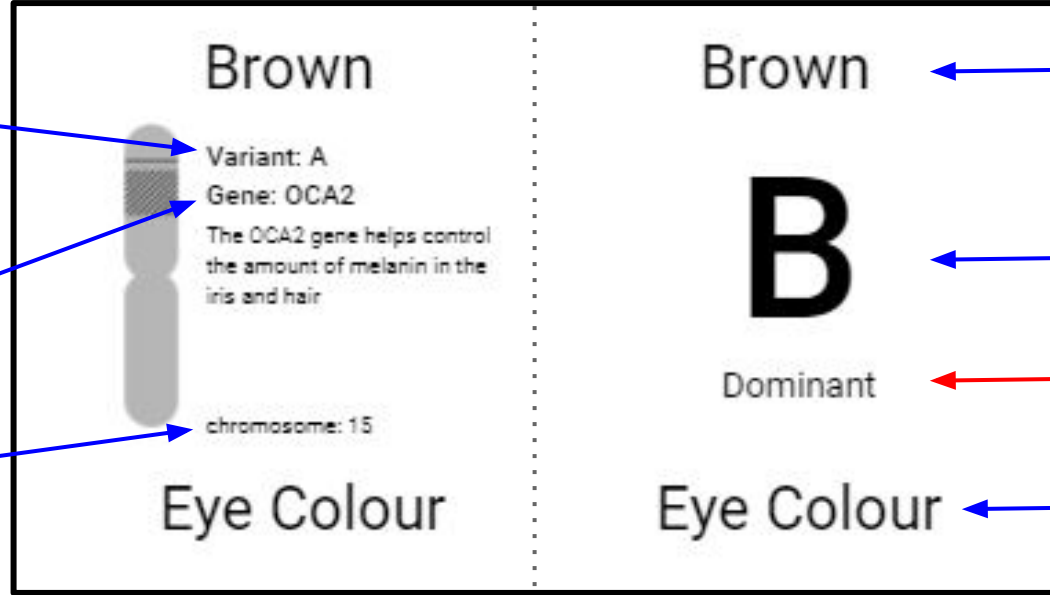
Alien 1



Brown eyes mask blue eyes
= **Complete Dominance**



Brown eyes mix with blue
= **Incomplete Dominance**



Variant

Gene

Chromosome

Phenotype

Allele

Dominant/
Recessive

Trait

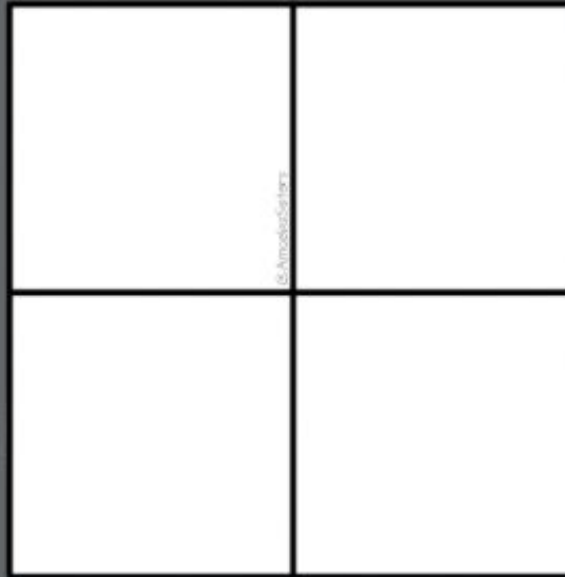
Punnett Squares



Punnett Squares

SOLVING PUNNETT SQUARES

with Hairy (H) and Hairless (h) Guinea Pigs



©AmoebaSisters

Dihybrid Cross

Foil Method for Dihybrid Crosses
©AmoebaSisters

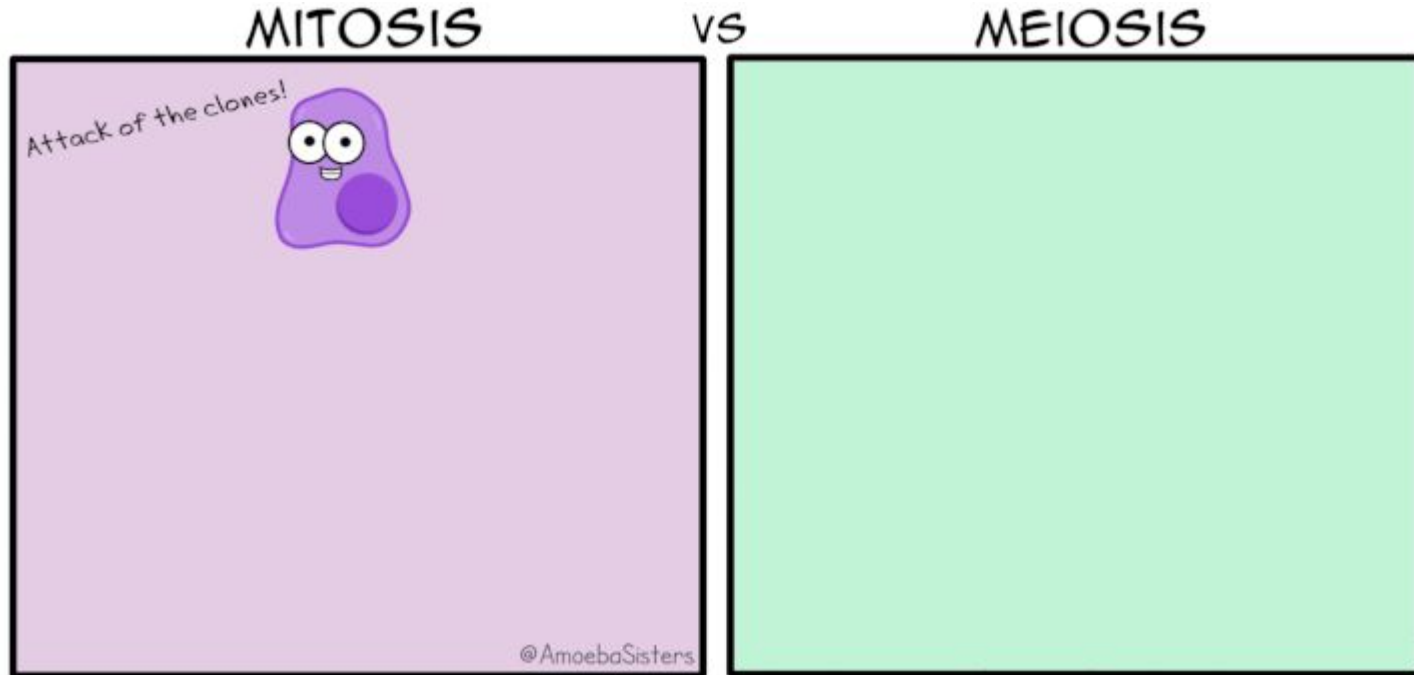
**F
O
I
L**

HhSs x hhss
©AmoebaSisters

The Next Generation



Meiosis and Gametes



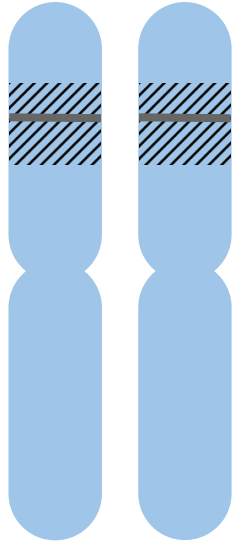
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Questions





Metaphase



Anaphase



Anaphase



Gametes



Fertilization

