



Inheritance Key Terms

Diploid



Gene



Allele



Genotype



Phenotype



Dominant Allele



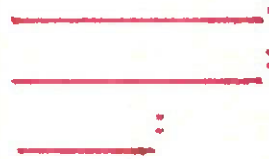
Recessive Allele



Codominant Allele



Homozygous



Heterozygous



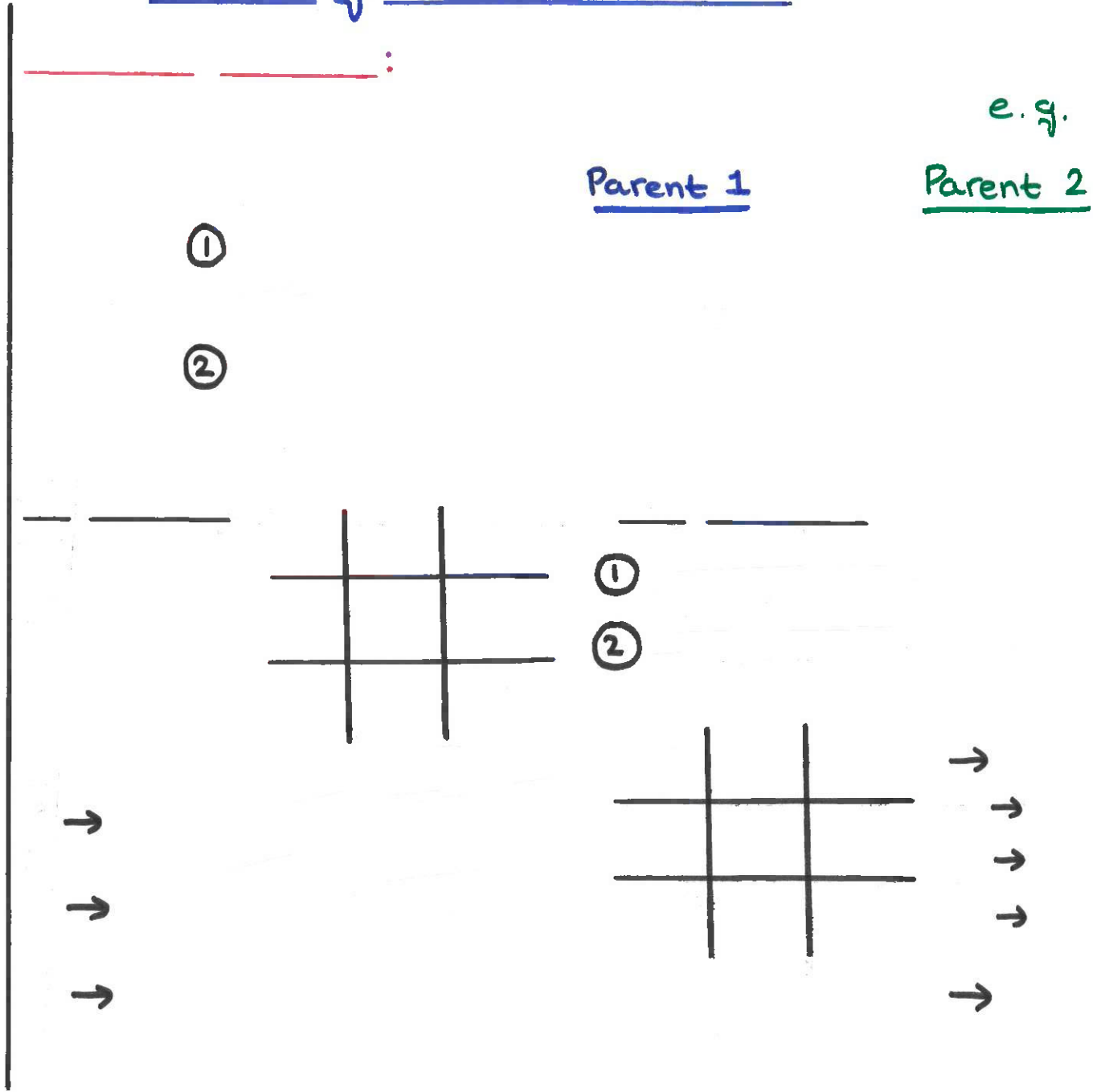
Locus





Mono hybrid Inheritance

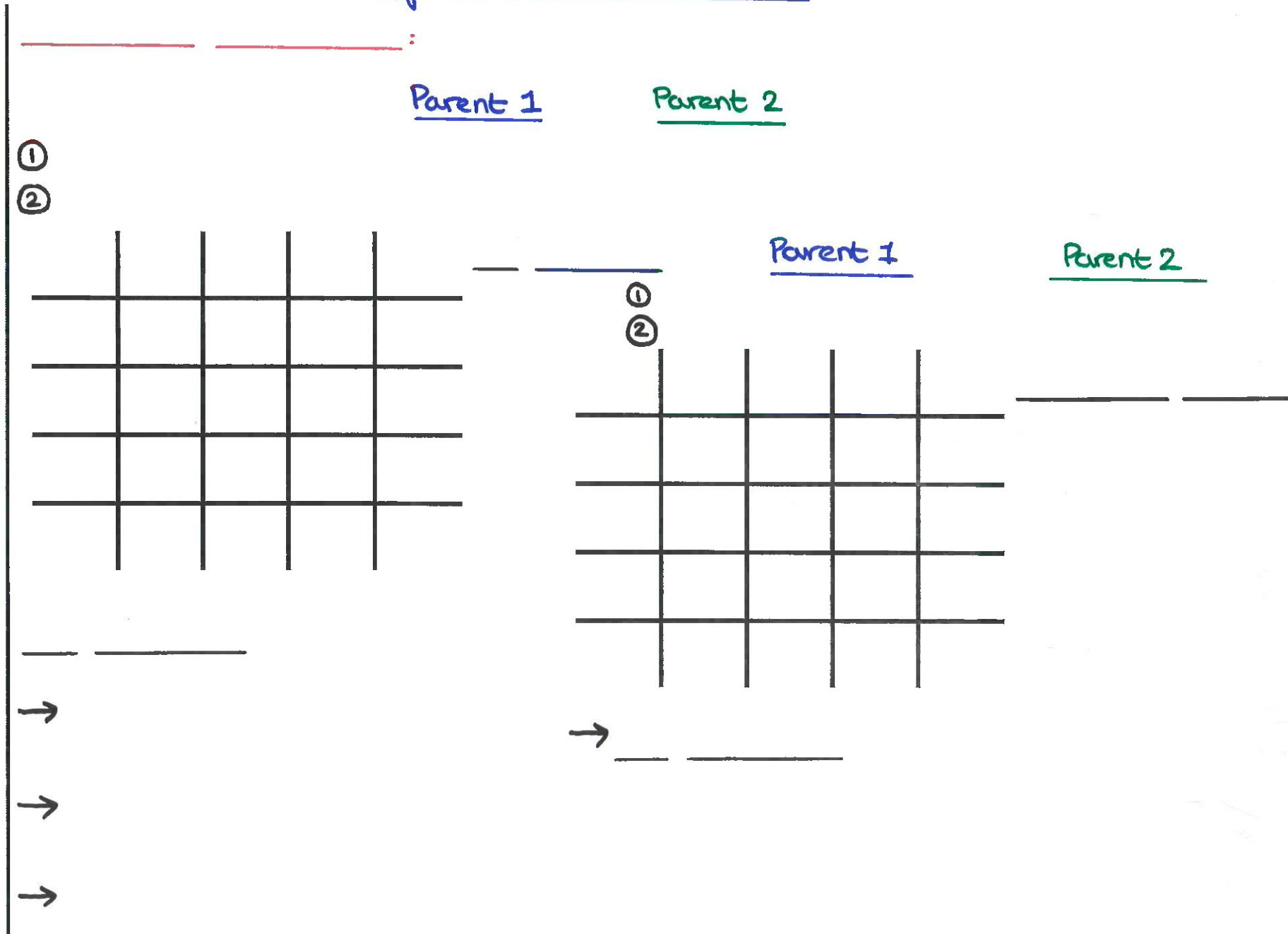
Mono hybrid Inheritance





Dihybrid Inheritance

- 1
- 2
- 3
- 4
- 5





Codominance & Multiple Alleles

ABO Blood Group System

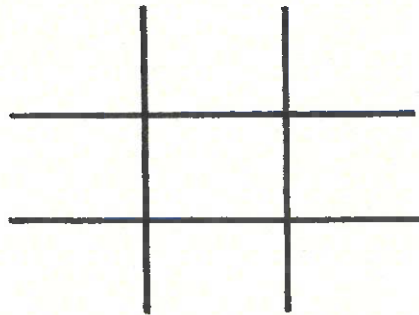
-
-
-

Parent 1

Parent 2

①

②



F₁ Generation:

Genotype :

Phenotype :



Epistasis

Epistasis

- 1
- 2
- 3
- 4
- 5

_____ :



e.g.



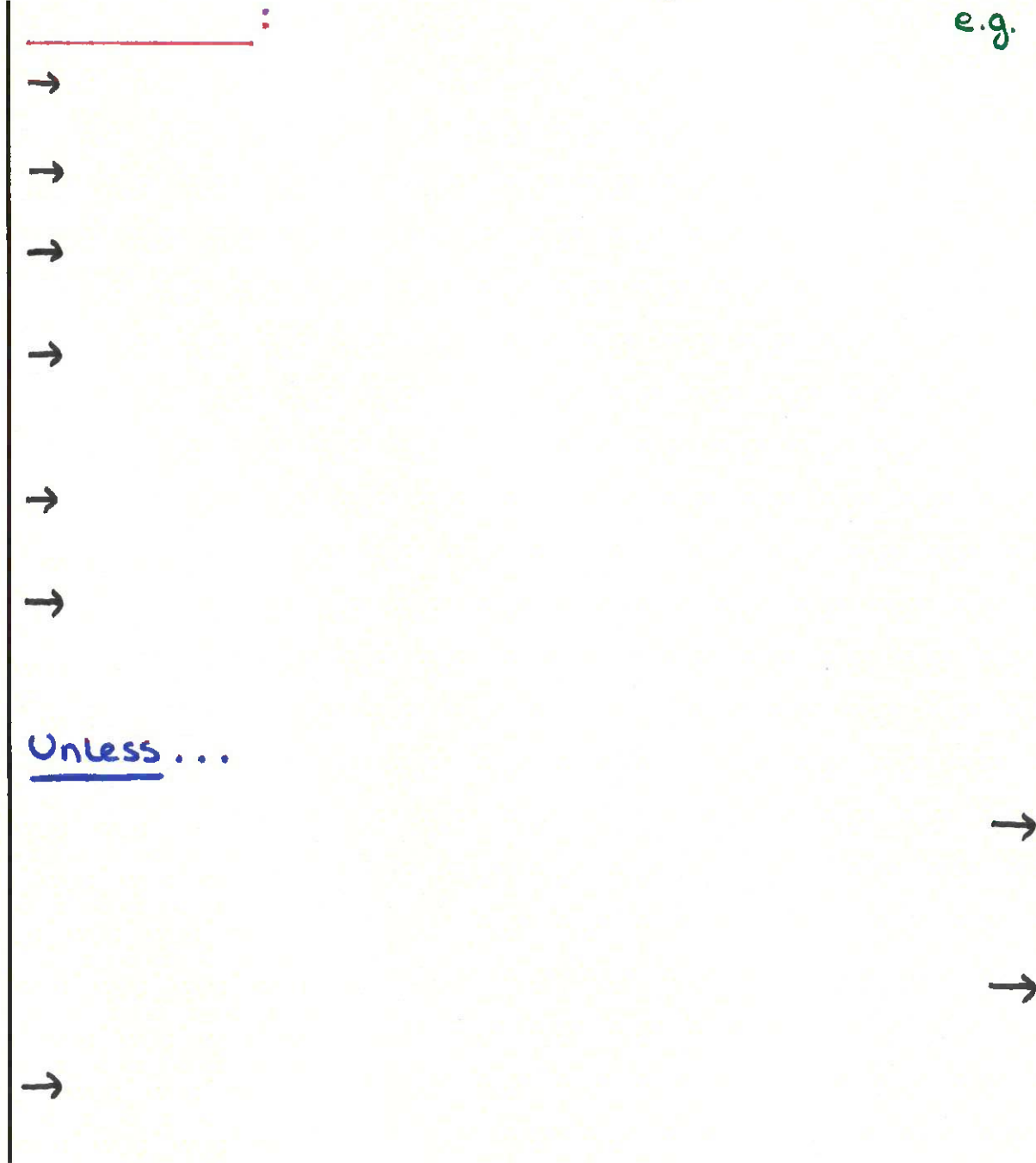


Autosome

Autosomal Linkage

- 1
- 2
- 3
- 4
- 5

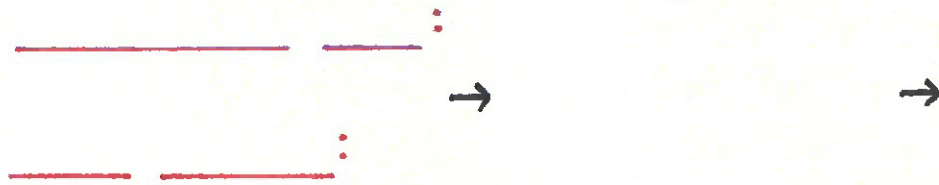
e.g.





Homologous Pair

Sex Linkage



Sex Chromosomes

Female = →

Males = →

Haemophilia

-
- ↳
-
- ↳

Phenotypic Ratio :

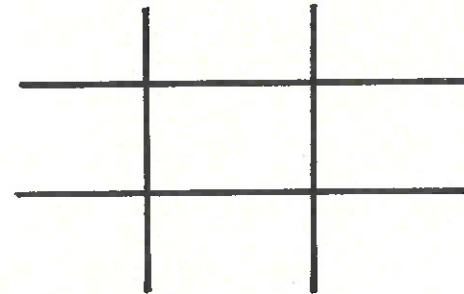
⋮

Parent 1

Parent 2

①

②



Phenotypic Ratio

⋮

F₁ Genotypes

Phenotypes

⋮

Sex Linkage



Normal Phenotypic Ratios

Exceptions →	Parents	F ₁ Phenotypic Ratio →	F ₂ Phenotypic Ratio →
Monohybrid Cross			
Dihybrid Cross			
Codominant			



Non-Normal Phenotypic Ratios

1 2 3 4 5

Epistasis

Recessive Epistatic
Allele

Dominant Epistatic
Allele

Parents :

F₁ :

F₂ :

Red

Blue

Albino

Albino

Red

Blue



Non-Normal Phenotypic Ratios

- 1
- 2
- 3
- 4
- 5

Sex Linkage

Autosomal Linkage



No linkage

With Autosomal linkage