

Inheritance revision

Define the following terms:

1. Intermediate inheritance:
2. Dominant/recessive inheritance:
3. Phenotype:
4. Genotype:
5. Allele:
6. Homozygous
7. Heterozygous

1. If brown fur is dominant to white,

The genotype of a brown fox could be _____ or

The genotype of the offspring from 2 brown foxes could be :

Parents pure breeding _____

One parent hybrid _____ or _____

Both parents hybrid _____ or _____ or _____

2. The offspring has flower colour different to both parents, and the parents have different flower colour to each other. Choose appropriate labels and:

List all possible genotypes and associated phenotypes for parents and all offspring.

Now list all possible genotypes and phenotypes for the F2 generation

3. Draw punnets for all the possible combinations between homozygous red, heterozygous yellow and homozygous orange flowered plants. Use R for red and O for orange

Look at the following list of terms

variation	diploid	heterozygous	genetics
dominant	mutation phenotype	zygote chromosomes	genotype hybrid
haploid mutant	heredity gamete	meiosis allele	mitosis homozygous

Choose one word from the list most appropriate to each phrase

- a) A cell with half the full chromosome set

- b) The characteristics an organism shows as a result of the genes it receives. _____
- c) The study of heredity

- d) Cell process which produces sex cells _____
- e) Cells with complete chromosome sets _____
- f) The genes an organism has in order to express a characteristic _____
- g) A new characteristic suddenly expressed in an organism _____
- h) Contains two different genes for a characteristic _____
- i) The organism with the new characteristic _____
- j) Pure bred for a characteristic _____

