Tobermory High School

Standard Grade Biology
Inheritance

2. What is Inheritance?

	Checklist	Grade
At the end of this topic you should be able to:		
(a) state that certain characteristics are determined by genetic information received from the parents and five examples from plants and animals.	☐	General
(b) Identify examples of phenotypes of the same characteristics.	☐	General
(c) identify examples of true-breeding, dominant and recessive characteristics from numbers and phenotypes of given crosses.	☐	General
(d) identify generations as P_1, F_1 and F_2 from given examples of crosses.	☐	General
(e) state that the phenotypes of the F_1 in a true-breeding cross are uniform.	☐	General
(f) state that the parents in experimental crosses are usually true-breeding and show different phenotypes of the same characteristic.	☐	Credit
(g) predict the proportions of the phenotypes of the F_2 offspring of a monohybrid cross.	☐	Credit
(h) state that each body has two matching sets of chromosomes.	☐	General
(i) state that the reduction of the number of chromosomes to a single set occurs during gamete formation.	☐	General
(j0 state that each gamete contains only one set of chromosomes.	☐	General
(k) describe how a complete set of chromosomes is achieved at fertilisation.	☐	General
(l) state that genes are part of chromosomes.	☐	General
(m) state that characteristics are controlled by 2 forms of the same gene.	☐	General
(n) state that each gamete carries one of the two forms.	☐	General
(o) state the meaning of the word genotype.	☐	General
(p) state that different forms of a gene are called alleles.	☐	Credit
(q) explain monohybrid crosses in terms of genotypes.	☐	Credit
(r) explain differences between observed and predicted figures in a cross.	☐	Credit
(s) state that sex of a child is determined by specific chromosomes called X and Y.	☐	General
(t) state that in humans each male gamete may have an X or a Y chromosome while each female gamete has an X chromosome.	☐	General
(u) explain how sex is determined with reference to the X and Y chromosomes.	☐	General

Homework ☐

End of Topic Test ☐

G R Davidson