

Lesson	Know	Apply	Extend
10.4.1 Inheritance	I can state what is meant by DNA. <input type="checkbox"/>	I can describe the relationship between DNA, genes, and chromosomes. <input type="checkbox"/>	I can explain how a change in DNA may affect an organism. <input type="checkbox"/>
	I can state what is meant by a chromosome. <input type="checkbox"/>	I can describe how chromosomes from both parents combine to form offspring. <input type="checkbox"/>	I can explain how a change in DNA may affect the future offspring of an organism. <input type="checkbox"/>
	I can state what is meant by a gene. <input type="checkbox"/>	I can state what is meant by a mutation. <input type="checkbox"/>	I can explain why gametes have 23 chromosomes, but normal body cells contain 46 chromosomes. <input type="checkbox"/>
10.4.2 DNA	I can build a model of the DNA molecule. <input type="checkbox"/>	I can describe the structure of DNA. <input type="checkbox"/>	I can explain why it is important for scientists to work together. <input type="checkbox"/>
	I can name four scientists who worked on the structure of DNA. <input type="checkbox"/>	I can describe how scientists worked together to discover the structure of DNA. <input type="checkbox"/>	
10.4.3 Genetics	I can state what is meant by an allele. <input type="checkbox"/>	I can describe the difference between dominant and recessive alleles. <input type="checkbox"/>	I can explain how dominant or recessive alleles can be expressed as external features. <input type="checkbox"/>
	I can state that genetics allows us to track alleles from one generation to the next. <input type="checkbox"/>	I can use a Punnett square to show what happens during a genetic cross. <input type="checkbox"/>	I can explain how to use a Punnett square to predict the outcome of a genetic cross. <input type="checkbox"/>
	I can complete a Punnett square to state how many offspring will have a particular characteristic. <input type="checkbox"/>	I can trace characteristics through a family tree using Punnett squares, giving answers as percentages and ratios. <input type="checkbox"/>	I can trace characteristics through a family tree using Punnett squares, calculating the probability of different outcomes. <input type="checkbox"/>

Lesson	Know	Apply	Extend
10.4.4 Genetic modification	I can state what is meant by genetic modification. <input type="checkbox"/>	I can state how an organism can be genetically modified. <input type="checkbox"/>	I can describe how an organism can be genetically modified to display a desired characteristic. <input type="checkbox"/>
	I can name a product produced by a genetically modified organism. <input type="checkbox"/>	I can describe some advantages of producing products through genetic modification. <input type="checkbox"/>	I can analyse advantages and disadvantages of producing products through genetic modification. <input type="checkbox"/>