



STUDY GUIDE

Year 10 Science

DNA and Genes

Chapter 2

Assessment

Task page 7

End of Chapter Test

Chapter	Content Description	Elaborations
DNA and Genes Chapter 2 (5 weeks)	The transmission of heritable characteristics from one generation to the next involves DNA and genes (ACSSU184)	<ul style="list-style-type: none">★ Describe the role of DNA as the blueprint for controlling the characteristics of organisms.★ Use models and diagrams to represent the relationship between DNA, genes and chromosomes.★ Recognise that genetic information passed on to offspring is from both parents by meiosis and fertilisation.★ Represent patterns of inheritance of a simple dominant/recessive characteristic through generations of a family.★ Predict simple ratios of offspring genotypes and phenotypes in crosses involving dominant/recessive gene pairs or in genes that are sex-linked.★ Describe mutations as changes in DNA or chromosomes and outline the factors that contribute to cause mutations.