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Human Biology – ATAR Year 11

## Task 8 – Unit 2

**Assessment type:** Extended response

**Conditions**

Time for the task:

* Part 1: two lessons to research topic and complete notes (6 marks)
* Part 2: one lesson for in-class validation – extended response exam style questions (28 marks)

**Task weighting**

5% of the school mark for this pair of units

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## Genetic Disorders

**Part 1: Research notes (6 marks)**

Genetic disorders occur when a mutation affects the genes. Carrying or inheriting the mutation does not always mean that the disease will develop, and some disorders are present at birth while some develop later in life. There are many types of inheritance patterns, including single gene dominant-recessive, sex linked, multi gene and chromosomal disorders. Research each of the following genetic disorders: Huntington's disease, phenylketonuria (PKU), red–green colour blindness and haemophilia, including

* the signs, symptoms, effects and prognosis of each disease
* the inheritance pattern involved
* a pedigree showing inheritance of the condition
* testing, treatment and/or management options

\*Note: all research should be based on Australian medical information

**Part 2: In-class assessment (28 marks)**

* You will be given specific examination style questions based on the topic you have researched.
* Notes will not be allowed for this task.