

# Using Genome Projects

These practice questions can be used by students and teachers and is

Suitable for AQA A Level 7402 Biology Topic Question

**Level: AQA A LEVEL 7402**

**Subject: Biology**

**Exam Board: AQA A Level 7402**

**Topic: Using Genome Projects**

Your essay will be marked for its scientific accuracy.

It will also be marked for your selection of relevant material from different parts of the specification and for the quality of your written communication.

The maximum number of marks that can be awarded is

Scientific	16
Breadth of knowledge	3
Relevance	3
Quality of written communication	3

Write an essay on the following topic:

Using DNA in science and technology

**(Total 25 marks)**



## Mark schemes

**1**

### **Essay Using DNA in science and technology**

#### **DNA and classification**

2.2 Structure of DNA

2.3 Differences in DNA lead to genetic diversity

2.9 Comparison of DNA base sequences

#### **Genetic engineering and making useful substances**

2.5 Plasmids

5.8 The use of recombinant DNA to produce transformed organisms that benefit humans

#### **Other uses of DNA**

2.5 Cell cycle and treatment of cancer

5.8 Gene therapy;

Medical diagnosis and the treatment of human disease;

The use of DNA probes to screen patients for clinically important genes.



EXAM PAPERS PRACTICE

3.8.3 Using genome projects

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