Genetics Research Project

Outcomes

S1-1-15	Investigate and describe environmental factors and personal choices that may lead to a genetic mutation or changes in an organism's development.				
	Examples: fetal exposure to alcohol, overexposure to sunlight, toxins, hormone mimics, food additives, radiation				
S1-1-16	Investigate Canadian and international contributions to research and technological development in the field of genetics and reproduction.				
	Example: Human Genome Project				
S1-1-17	Discuss current and potential applications and implications of biotechnologies including their effects upon personal and public decision making.				
	Include: genetic engineering, cloning, Human Genome Project, DNA fingerprinting.				

S1-1-18 Use the decision-making process to address a current biotechnology issue.

Format

You may choose which ever method to present your ideas, poster, power point, photo essay, interpretative dance.... However, this project is to be done **INDIVIDUALLY**

Topics

- Genetic treatments/medications
- Genetic technology
- Human genome project
- Effects of chemicals on human genetics/development
 - Alcohol
 - o Tabaco
 - o Toxins
 - UV light over exposure
 - o Chemicals that mimic hormones
 - o Radiation
 - Food additives
- DNA fingerprinting
- Cloning
- Genetic engineering
- Genetic screening
- Genetic mapping
- History of genetic research
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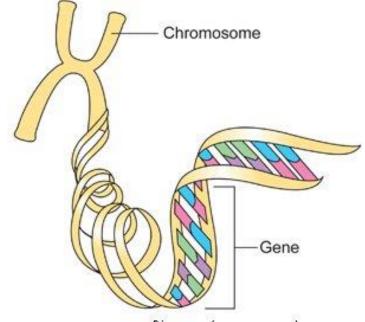


Diagram of a gene on a chromosome Copyright@CancerHelp UK

Criteria		Performance Levels			
	Level 1	Level 2	Level 3	Level 4	
Source of Information	 Student used only one source of information. 	 Student used two sources of information. 	 Student used a variety of sources. 	 Student used a wide variety of sources including the internet. 	
Information Collected	 The information collected was not relevant 	 The information collected was relevant to the topic but was not blended into a cohesive piece. 	 The information collected was relevant to the topic and was somewhat organized into a cohesive piece. 	 The information collected was relevant to the topic and was carefully organized into a cohesive piece of research. 	
Organization of Material	 The information collected was not organized 	 The information was somewhat organized 	 The information was organized and contained recognizable sections 	The information was organized and contained recognizable sections that included an introduction, a main body with supporting evidence, and a conclusion that summarized the report.	
Presentation of Material	 The report was handwritten but very difficult to read and follow 	 The report was neatly handwritten The report contained a bibliography that was not correctly formatted 	 The report was typed The report contained graphics The report contained a bibliography that was not correctly formatted 	 The report was neatly typed with appropriate format The report contained a title page The report contained relevant graphics The report contained a complete, correctly formatted bibliography 	
Author' s Voice	 All the material is copied and pasted 	 A few sections are in authors' own words, but most still copied 	 Most of the presentation is in author's own words Copied sections are not quoted 	 Most of the presentation is in author's own words All copied sections are appropriately quoted 	