

Curriculum Links for: ABPI Human Genome Project

Key Stage 4 (Age 14-16)

Science

National Curriculum National Curriculum	Scientific Enquiry		
	The Nature of Science	1.5	consider the ways in which scientific ideas are affected by the social, political and historical contexts in which they develop, and how these contexts may affect whether or not the ideas are accepted
	Life Processes and Living Things		
	Variation, inheritance and evolution		
	<i>Inheritance</i>	4.8	the potential benefits and ethical considerations posed by advances in cloning and genetic engineering

GCSE Specifications

WJEC	Science / Biology 1	B1 4c	<ul style="list-style-type: none"> Assess the issues surrounding 'gene ownership' as a result of DNA analysis and consider whether the ethical issues involved are a matter for society and beyond the scope of science to solve
		8d	<ul style="list-style-type: none"> Discuss the implications of genetic counselling and the ethical problems posed by an individual's prior knowledge of a genetic trait

The '**Human Genome Project**' contains an animated diagram showing how DNA sequences are determined, as well as information and activities based on the project and ethical issues raised by the knowledge it generates. Students are encouraged to reflect on:

- the millions of base pairs that make up the human genome
- the efforts of scientists and technologists around the world deciphering the human genetic code
- the potential benefits that understanding human genome will bring and the issues that will need to be considered