

## B2 – Genetics Quiz

1. What happens to genetic material before a cell divides?
2. How many chromosomes are there in human body cells?
3. The importance of Mendel's work was not recognised until the early 1900s. Why?
4. Suggest one reason why many people support the screening of embryos for the cystic fibrosis allele.
5. Suggest one reason why many people are against embryo screening.
6. What is the genetic makeup of a boy and a girl?
7. What is the chance of having a boy/ girl?
8. Why can you not blame a woman for only giving birth to girls?
9. Explain why we look similar but not identical to our parents.
10. What are the symptoms of cystic fibrosis?
11. What are the symptoms of Huntington's disease?

12. Describe meiosis.
13. Evaluate the use of embryonic stem cells.
14. What is an allele?
15. What does recessive mean?
16. What is a carrier?
17. Why do most organisms have an even number of chromosomes in their body cells?
18. What is The function of DNA?
19. Why is it important for body cells to divide by mitosis?
20. Describe the differences between mitosis and meiosis.
21. What is the chance of a baby having cystic fibrosis if both parents are carriers?
22. How does meiosis give rise to variation?
23. What is the meaning of the word homozygous / heterozygous?
24. Polydactyly is a dominant disease. What is the genotype of a man who is a sufferer?

25. What is a gene?

26. The colour and shape of flower petals are known as what?

27. What is the name of the thread like structures found inside the nucleus of a cell?