

'I chose the keywords because they all have impact on the topic of genome editing whether it be for or against. To understand the significance of these keywords in my painting I want to give a summary of how each of the keywords can be used. (*Keywords from painting are in bold*).'

Genome editing is used for **research** to change the DNA in cells or organisms to **understand** their biology and “undoubtedly transform biological research”. Genome editing can also be used for treating **diseases** such as leukaemia but also **genetic** conditions such a muscular dystrophy. Another use is in agriculture to genetically modify crops to improve their yields and become resistance to disease and drought.

CRISPR-Cas9 is the most common, cheap and efficient system used for genome editing. The points that could support genome editing are; reducing the risk of genetic **diseases** and inherited medical conditions.

There is a better **understanding** of genetics as well as increased **life span** as you can give child genes that the parents do not carry and therefore prevent next generation of family from getting characteristics/diseases. The arguments against could be it may create a **gap** in society, possibility of damage to the **gene pool**. Genes often have more than one use which brings into question the **safety** of this procedure. Geneticists are not **perfect**, and as well as loss of individuality other children in family could be affected by parent's decision and therefore should **laws** be in place.