**HG**Science – **B1** Genetic engineering

* Watch the video link (<http://www.youtube.com/watch?v=rsJv7Tc_KYw>) – it is also on the Weebly site.
* Use the video to answer the questions below.
* You also need to revise *DNA*, *cloning* and *evolution* for assessment on Friday 2nd May.
* **ALL DUE IN ON FRIDAY 2ND MAY.**

Questions on genetic engineering

|  |  |
| --- | --- |
| **Overview** |  |
| 1. What is genetic engineering? | ………………………………………………………………………………………………………………………… |
| **Insulin** |  |
| 2. Briefly describe the use of genetic engineering to produce insulin. | ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… |
| 3. What method do scientists use to remove the required gene from the original organism? | ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… …………………………………………………………………………………………………………………………  |
| 4. What is done with the gene that has been ‘cut out’ from the original organism? | ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… |
| 5. Why is this process useful? | ………………………………………………………………………………………………………………………… |
| **Insect resistant crops** |  |
| 6. Briefly describe the use of genetic engineering to produce insect resistant crops. | ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… …………………………………………………………………………………………………………………………  |
| 7. What do scientists insert into the required crop? | ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… |
| 8. What benefit does this process have? | ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… |
| **Moral implications** |  |
| 9. Why do some people disagree with using GM crops? | ………………………………………………………………………………………………………………………… ………………………………………………………………………………………………………………………… |