1. **Explain the link between reproduction and heredity.**

1) Key vocabulary- Definitions of each will help you better understand what a questions is asking you:

Gamete:

 Zygote:

 Clone:

 Allele:

 Dominant:

 Recessive:

 Discrete variation:

Continuous variation:

 Stamen: (2 parts)

 Pistil: (3 parts)

Angiosperm:

Gymnosperm:

2) Things to know:

* Sexual vs asexual reproduction

(advantages and disadvantages of each)

* Types of asexual reproduction (4 types)
* Sexual reproduction (internal vs external fertilization)
* Nature vs nurture
* Discrete vs continuous variation of traits. Classify weight, height, tongue rolling, and eye colour as each.
1. **Describe the role of genetic material and biotechnology.**

Key vocabulary:

Chromosomes:

 DNA:

 Genes:

 Mitosis:

 Meiosis:

Things to know:

1) Create a Punnett square for the following scenario:

Mom carries a brown haired allele and a blonde hair allele.

Dad carries two blonde hair alleles.

Give the percentage of children that would have blonde hair.

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 2) What are the 4 DNA bases and who pairs up with who?