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.

|  |  |
| --- | --- |
|  |  |
|  |  |

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