

**Unit Overview – Genes 1**

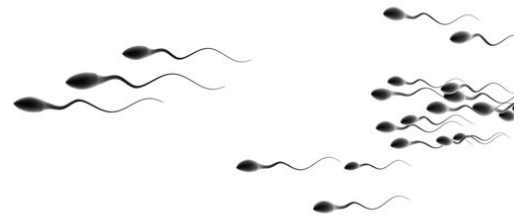
**Target grade for tests: .....**

**You will learn about:**

- Variation and human reproduction.

**You will be able to:**

- Examine consequences, critique claims and justify opinions.



<b>Key learning points</b>		<b>Key Words</b>
Explain the difference between continuous/discontinuous and inherited/environmental variation.		Species Variation Continuous variation Discontinuous variation
Explain that offspring from the same parents may be very different because they have unique, random combinations of their parents' hereditary information.		Gamete Fertilisation
Explain how variation may help a species to survive.		Ovary Testicle
Describe the structure and function of different parts of the male and female reproductive systems.		Oviduct, or fallopian tube Uterus, or womb
Describe the process of menstruation.		Ovulation Menstruation
Describe fertilisation in humans and causes of low fertility.		Reproductive system
Describe the development of the foetus.		Penis Vagina
Explain how nutrient, waste and gas exchange happen in a developing foetus.		Foetus Gestation Placenta Amniotic fluid Umbilical cord.
Analyse advice given to pregnant women (e.g. diet and lifestyle).		
Skill: examine consequences		
Skill: critique claims		
Skill: justify opinions		

**Links to other subjects:**

**SMSC**

- Analyse advice given to pregnant women.
- Consider the causes of and treatments for low fertility.

**Numeracy**

- Plot bar charts and line graphs to show discontinuous and continuous variation.

**Literacy**

- Persuasive writing around lifestyle choices for pregnant women.