

GCSE Biology Learning Checklist

Unit 5: Homeostasis and response

Sub-unit: Hormonal communication

I can...		After Lesson	After Revision
1	Label the glands of the endocrine system		
2	Describe how hormones travel to target organs		
3	Explain why the pituitary gland is described as the master gland		
4	Describe how the pancreas controls blood glucose levels using insulin		
5	Compare type 1 and type 2 diabetes and explain how they can be treated		
6	Extract information and interpret data from graphs that show the effect of insulin in blood glucose levels in both people with diabetes and people without diabetes		
7	Explain how glucagon interacts with insulin in a negative feedback cycle to control blood glucose (sugar) levels in the body. (higher)		
8	Describe the roles of hormones in human reproduction, including the menstrual cycle.		
9	State the secondary sexual characteristics that develop for boys/girls during puberty		
10	Explain the interactions of FSH, oestrogen, LH and progesterone, in the control of the menstrual cycle (higher)		
11	Extract and interpret data from graphs showing hormone levels during the menstrual cycle.		
12	Evaluate the different hormonal and nonhormonal methods of contraception		
12	Explain the use of hormones in modern reproductive technologies to treat infertility (higher)		
13	Understand social and ethical issues associated with IVF treatments. (higher)		
14	Explain the roles of thyroxine and adrenaline in the body. (higher)		

15	Describe how plants use auxins to control growth and responses to light and gravity (separate)		
16	State uses of gibberellins and ethene for commercial plant growers (separate)		
17	Required practical activity 8: investigate the effect of light or gravity on the growth of newly germinated seedlings (separate)		

Keywords:

Endocrine system

Adrenaline

Insulin

Pituitary gland

Thyroid

Pancreas

Adrenal gland

Ovaries

Testes

Insulin

Glucagon

Glycogen

Diabetes

Negative feedback (higher)

Thyroxine (higher)

Oestrogen

Progesterone

FSH

LH

Ovulation

Menstruation

Testosterone

Contraception

Intrauterine device

Abstinence

IVF (higher)

Tropism (separate)

Auxin (separate)

Gibberellins (separate)

Ethene (separate)

Exam insights:

