**Key Words** Homeostasis -Reflex -Stimulus -Hormone -Effector -Pancreas – Liver – Glucagon -Insulin – Glycogen -Diabetes – Glycogen -Puberty – Menstruation -Ovulation -Contraception -IVF -

### Homeostasis and response

Explain in four steps how water is regulated by ADH

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- •
- •
- •

Give two arguments for and against IVF

State the hormones in a contraceptive pill. Explain why.

Give the steps required for a nervous response to occur (Y9)

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- •
- •
- •
- •
- •
- •

Explain in six steps how blood glucose levels are controlled by insulin and glucagon

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- •
- •
- •
- •
- •

Explain the functions of the following hormones

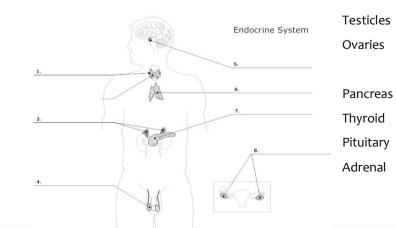
Oestrogen -

LH -

FSH -

Progesterone -

#### Label the diagram with the following glands



Vhat is a reflex?	Homeostasis – the
	nervous system

Draw and label a motor neurone.

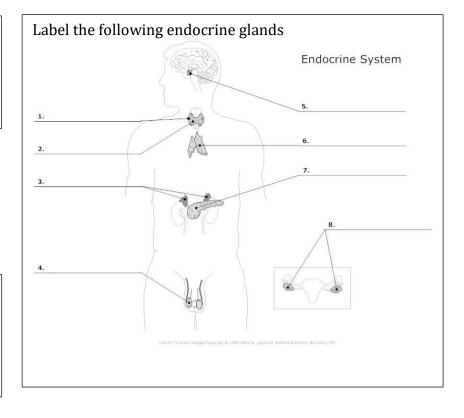
Why are reflexes important?	What is a reflex arc?	
What's a receptor? Name three types of receptor.		
	Why is the myelin sheath	Label this reflex arc
What's an effector? Name the two types of effector.	important?	Describe with the use of diagrams
		how an impulse crosses a synapse.
	What is a synapse?	
Name the three types of neuron.	]	
What makes up the CNS?	What is a neurotransmitter?	

What is a hormone?	

### Homeostasis – endocrine system and blood glucose control

What is an endocrine gland?
What hormone is released if blood glucose
is too
high?
Describe how insulin lowers blood glucose
2 000130 110 11 110 110 110 110 110 110 1
What hormone is released if blood glucose
is too low?
How does glucagon raise blood glucose?

What is the cause of Type 1 diabetes?
How is type 1 diabetes treated?



diabetes?	
How is type 2 diabetes treated?	_

What is the cause of type 2

Name the hormones produced by: Ovaries
Testes
Pancre
Adrenalglands
thyroid
Pituitary

Why is the pituitary gland known as the master gland?

Describe how the kidney makes urine.

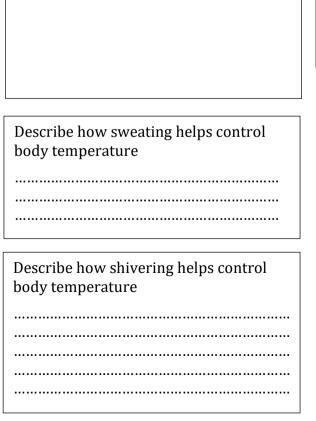
Include ultrafiltration and selective reabsorption.

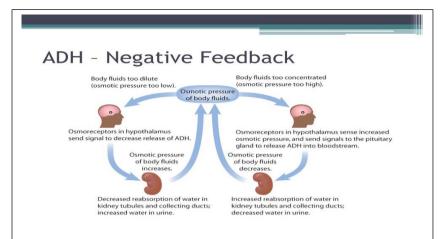
# What does the urine of a healthy person contain? Describe some advantages of kidney transplants Describe some advantages and disadvantages of dialysis.

### Homeostasis – kidney and thermoregulation



Describe how vasodilation controls body temperature





Describe how ADH controls the volume of urine produced.



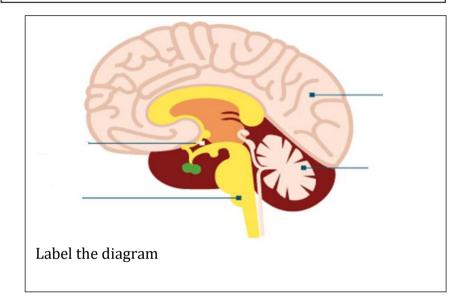
Describe how vasoconstriction controls body temperature

What	is	a	ref	lex?
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### Homeostasis -

Why are reflexes important?	What is a reflex arc?
What's a receptor? Name three types of receptor.	
What's an effector? Name the two types of effector.	Why is the myelin sheath important?
Name the three types of neuron.	What is a synapse?
Vhat makes up the CNS?	What is a neurotransmitter?

Describe how the brain is mapped.



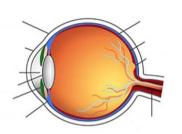
...The cerebral cortex

The cerebellum

The hypothalamus

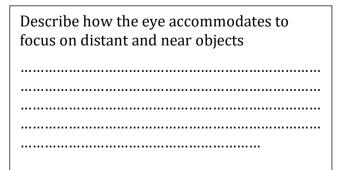
The medulla

Describe the function of:



Label the diagram

Describe the function of: The retina The lens The cornea The ciliary muscle Suspensory ligament Optic nerve



## Homeostasis – Eye and brain

What is myopia?

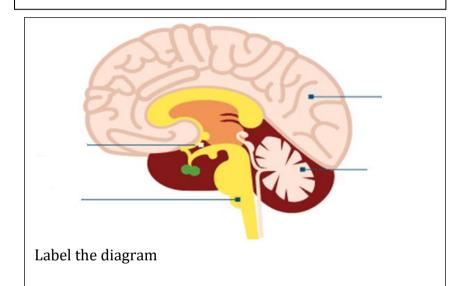
Draw a diagram to explain how this can be corrected.

What is hyperopia?

Draw a diagram to explain how this can be corrected.

Describe how surgery can correct vision

Describe how the brain is mapped.



Describe the function of: The cerebral cortex
The cerebellum
The hypothalamus
The medulla