Complete the flow chart for a <i>nervous system</i> response of a dog seeing and chasing a cat.			Senses and Sense organs		(BIOLOGY ONLY) Common problems of the eye and new technology:	Complete the flow chart for a <i>reflex response</i> of someone standing on a hot pin. Remember - SRSRMER		
Order of a nervous response			Stimulus	Sense Organ	Accommodation – Myopia –	Order of a Reflex		
Step Description		Light		Hyperopia –	Step	Description		
Stimulus				Tongue	Contact lenses –			
			Smell		Laser eye surgery –			
Receptor Cells			Touch		Replacement lenses -			
Sensory				Ear	Topic 5 Homeostasis and Response			
Neurone			(BIOLOGY AND	HIGHER ONLY) T	he Brain:]		
Coordination			1. State the	role of:				
centre				Cerebral cortex -				
Motor Neurone			Cerebellum -Medulla -					
	2. Desci			Describe the ways of studying the brain:				
Effector				Brain damage -				
			· E	lectrical stimulati	on -			
Response			MRI scans -					
	•		<u> </u>	Problems studying	the brain -			
Glands and Hormones				(BIOLOGY AND HIGHER ONLY) The Eye:		Describe how a synapse works:		
Gland	Hormone	Functi	on	1. State the		Describe now a sy	mapse works.	
Pituitary					Pupil -			
Thyroid				2.	Iris - Retina -			
Pancreas				1 1	Optic nerve -			
Adrenal				1	Suspensory ligaments -			
Ovaries				6.	Ciliary muscles -			
Testes				2. Describe	how the eye focusses light:			

Endocrine system: 1. What is a hormo	a hormone? control blood glucose: 1. Insulin the pituitary		High blood s Insulin rele		 (HIGHER) Negative feedback: Describe what negative feedback is in terms of thyroxine. Why can adrenalin not be used in a negative feedback system? 		gland I.S.H.		
2. What is an endo gland?3. Why is the pituit gland called a magland?			Optimal blood st	cells and used or stored as glycogen			Normal level of thyroxine Thyroid Thyroxine		
			eating for a while Low blood su	and released into the bloodstream	Describe the role of each of the hormones in		Fertility Treatments		
			Glucagon rele		the menstrual cycle:	N N	lethod	Description	
Comparing Types of Diabetes			Describe the steps involved in IVF:	FSH	1	one-based raception			
Question	Type 1	Type 2	Hormones given to the mother –		l				
Cause?	Cause?				LH Ch		cal methods		
Symptoms?	Symptoms?		2. Collect eggs –	Oestrogen					
Treatment?	Treatment?				Barrier methods				
Cure?	Cure?		3. Eggs are fertilised in a laboratory –		Progesterone Intrauterine devices				
Describe the effects of auxin on roots and shoots.			4. Fertilised eggs are preserved –	Plant hormones – Define		erine devices			
				these: Phototropism:	Abstinence				
			5. Ball of cells created –	·	Surgic	al methods			
			What is the treatment for women who do not make enough FSH?		Gravitropism:				
			using plant hormones? Advantages Advantages		dvantages of Fertility Treatments Disadvantages			ow can plant hormones be used?	
							Auxins –		
							Gibberellins –		
Sund Sund			A -				Ethene –		
1 0/1 s			D -						

How is temperature controlled: 1. Describe the functions of the kidney:			2. Explain how the kidneys work:		3. Explain what selective reabsorption means:			
Receptors –								
Brain –								
1. Describe how each of the	waste products are	removed	from the body:					
Carbon dioxide				<u>Topic 5 (B12)</u>				
• Urea –				Homeostasis				
2. How is urea produced and	d why does it need t	o be remo	ved?	in Action				
		_		(BIOLOGY				
3. Where do all of the waste	e products come fror	m?		ONLY)		Homeostasis	is	
	Comp	paring Kid	ney Treatments		Factor	Too High	Too Low	
Treatment	Description of trea	atment	Advantages	Disadvantages				
Dialysis					Temperature	Vasodilation – Sweating -	Vasoconstriction — Shivering — Sweating reduced -	
Kidney Transplant					Water (Concentration of Mineral ions)	Concentrated urine – More ADH – Kidney reabsorbs more water –	Dilute urine – Less ADH – Kidney reabsorbs less water –	