Pick Partners in excellence The World Health Organisation (WHO) describes health as a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.					Damage to immune systemMakes it easier for other cause disease			•	athogens to	Pixes				
					Damage to body defences	Barriers and defences are dam Pathogens can enter the body			-	Communicable and non communicable		Communicable Caused by pathogens.	Non-communicable Caused by a fault in genes	
					Damage to organ systemsOrgan systems don't work effectively leading to othe						diseases They can be passed from or by the way we live (lifestyle)			
Health					EDEXCEL GCSE HEALTH DISEASE AND			Ή	Pathogens may infect plants or animals and can be spread by direct contact, water or air					
seases		tection ed growth	Ident	entification			DICINE part 1			Pathogen	Disease	Symptoms	Method of transmission	Control of spread
Detection and identification of plant diseases (bio HT only)	Spots	ts on leaves using		Reference using gardening manual or website, laboratory test for pathogens, diagnostic testing.		Plants ha defendin pathog	-	m	Bacteria	cholera	Causes diarrhoea.	Contaminated water	Vaccination, water treatment to remove bacteria.	
	gr	growths ma we lab				Physical		ology only) Mechanical		Bacteria	tuberculosis	Causes lung damage.	Air borne water droplets from couching.	Isolation of infected person, vaccination.
	sten	Malformed stem/leaves				Thick waxy layers, cell walls stop pathogen entry	Thorns, curling up leaves to prevent being eaten		-	Fungi	Chalara ash dieback	Leaf loss and bark lesions.	Spores in the air.	Remove/destroy infected trees.
	ŀ	sence of pests		damage tissues ar		Chemical Antibacterial and toxins made by plant			nt	Protists	Malaria	Recurrent fever. Damage to blood and liver.	By an animal vector (mosquitoes).	Prevent breeding of mosquitoes. Use of nets to prevent bites.
Virus	ses	Bacteria (prokaryotes)		Protists (eukaryotes)		Fungi (eukaryotes)	Fungi			Bacteria	Stomach ulcers (Bio only)	Pain in abdomen, damage to stomach lining.	Oral transmission.	60% already carry the bacteria.
e.g. cold, influenza, measles, HIV, tobacco		e.g. tuberculo (TB), Salmonel		e.g. dysenter sleeping sickness	9	e.g. athlete's foot, thrush, rose black spot	Pathogens that caus		diseases	Virus	Ebola (Bio only)	Internal bleeding and fever.	Contact with bodily fluids of an infected person.	Isolation of infected person. Vaccination.
mosaic	virus	Gonorrhoea No membrane bound		malaria		Membrane	ns are use inf			Virus	ΗΙν	Initially flu like systems, serious damage to immune system.	Sexual contact and exchange of body fluids.	Anti-retroviral drugs and use of condoms.
DNA or RNA surrounded by a protein coat		organelles (no chloroplasts, mitochondria or nucleus). Cell wall. Single celled organisms		Membrane bound organelles. Usually single celled.		bound organelles, cell wall made of chitin. Single celled or multi- cellular	microorganisms ectious disease	Pathogens	Communicable	Bacteria	Chlamydia	Unusual discharge from genitals or anus, pain when urinating.	Unprotected sex.	Using condoms during sex.





