St. Benet Biscop Catholic Academy – Humanities Faculty Knowledge Organiser- Year 11 Topic: Paper one Breadth study. Medicine through time 1250-present

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		Topic. Paper one breadth study. Medicine through time 1250-present		
Key event timeline-Medieval medicine		Key Concepts	Selected key words and definitions	
Medieval Britain is the period between 1250- 1500 also known as the 13 th -16th century. It is also known as the Middle Ages		The Medieval Church- The official religion of Britain was Roman Catholic and the church was led by the Archbishop of Canterbury, who was answerable to the Pope in Rome. Ideas and power was dominated by the Church, they controlled education and	Superstition	A belief, not based on knowledge, but in the supernatural like God, witchcraft or astrology.
1123	Britain's first hospital, St.	the church played a central part in daily life. <u>The Four Humours-</u> First suggested by Greek doctor Hippocrates. He believed the body	Monastery	A building where monks live, eat and prayer. Sometimes offered care for the sick.
	Bartholomew's was set up in London. It would not treat people who were contagious.	was made up of Four Humours, Black Bile, Yellow Bile, Blood and Phlegm. These humours linked to the four elements and seasons. Hippocrates believed if these humours became unbalanced you would get ill, so you would need to rebalance the	Miasma	'Bad smells' that were thought to cause illness.
		four.	Astrology	Study of the planets. Thought to cause illness
1348-	The Black Death affects England,	Galen, a Greek doctor working in Rome, continued the Four Humours Theory and added his own ideas. His <u>'Theory of Opposites'</u> to heal illness suggested using opposites to cure the humours, e.g. using hot to cure cold. <u>Medieval power-</u> The emphasis in Medieval Britain was on authority, the King had absolute power but the Church has considerable control. People followed authority and would not question the views of King/Church at risk to their own lives.	Urine Chart	Used to diagnose illness
49	kills 40% of population. People often believed the lack death was a punishment from God or spread through Miasma. Treatments included prayer, flagellation and sweet smelling herbs.		Amulet	A charm thought to 'prevent' illness.
			Purging	To rid the body of a 'excess' like blood or vomit
			Leeching	The use of leeches to draw blood from a patient to prevent or treat illness.
1350	Average life expectancy is 35 years of age.		Cupping	Placing a cup over a cut to draw blood from a patient to prevent or treat illness.
1388	Parliament passes the first law requiring streets and rivers to be kept clean by the people. Failure to follow the rules could lead to fines.	Enquiry questions • Who was more significant; Hippocrates or Galen? • How much impact did the Medieval Church have on Medieval medicine? • What was treatment and care of the sick like? • How significant was the Black death?	Apothecary	Medieval chemist or pharmacist
			Wise woman	A female healer, who used magic or herbal remedies to treat illnesses.
			Barber surgeon	Untrained surgeon who practiced basic surgery.
1400	There were 500 hospitals in Britain. They were either run by Charities and offered care, rest and relaxation prescribed by doctors who had been trained in Galen and Hippocrates methods or Monastery hospitals where you would receive prayer, rest, relaxation and food.		Vademucum	Book carried by university trained physicians
		<u>Useful websites</u>		(doctors)
		http://www.bbc.co.uk/schools/gcsebitesize/history/shp/middleages/	Epidemic	Widespread outbreak of disease
			Rakers	Men employed to clean the streets
		Explain one way in which Were similar/different in (4) Explain why (12)	Pestilence	A fatal epidemic disease. E.g Black Death
		'Hypothesis/statement' How far do you agree? (16)		

Key ev	vent timeline-Renaissance medicine	St. Benet Biscop Catholic Academy – Humanities Faculty		Selected key words and definitions	
Renaissance- a period of rebirth where ancient learning is revisited and science is explored. From 1500-1700 or 16 th -17 th century.		Knowledge Organiser-Year 11 Topic: Paper one Breadth study. Medicine through time 1250-present		Dissection	The cutting open of a human body to study its anatomy for medical training and research. It was allowed during the Renaissance.
	1		Key Concepts	A	
1500	The printing press has spread across Europe. 200, 000000 books published.		logy-New technology such as the printing press helped spread ideas oscopes and pumps helped medical knowledge advance. It was an age of	Anatomy The Great	The science of understanding the human body.
1518	The College of Physicians was set		tion and discovery <u>rch-</u> The Reformation led to change in religion, especially a decline in the Church's ty after Henry replaced it with the Church of England. As a result, the church had less there was freedom of education and challenging of God's teaching. Most people did strongly religious though		Combination of Pneumonic and bubonic plague.
1536- 1540	Dissolution of the monasteries. Henry VII closes all monasteries	control, there was f			Used to print books from 1500. It helped spread ideas.
	across England including Church hospitals.		Key individuals	Plague pits	Mass graves where victims of the plague were buried.
1543	Vesalius releases the book 'fabric of the human body.'	William Harvey	English doctor. Theory on circulatory system explained that blood circulates from the heart to the lungs, and from the heart to the rest of the body.	Direct observation	The observation of the human body through dissection to improve knowledge and
1628	William Harvey scientifically proves the circulation of blood	Thomas	English physician. Believed doctors should visit patients and observe them,		understanding.
	through the body, his book	Sydenham		Circulation	The movement of blood around the body.
	marks the end of Galen's influence on the anatomy.	Andreus Vesalius	Belgian physician. Proved Galen wrong by discovering spermatic vessels. Advocate for medical students performing dissections on humans.	Quack doctor	A doctor who pretends to have medical
1662	The Royal Society set up by Charles II to discuss scientific ideas.				knowledge or skills but does not have any. They sold medicine which supposedly cured all illnesses.
1665- 66	The Great Plague in London. It killed 25% of London's population.	 4 How much impact did the work of individuals have on the understanding of cause, treatment 		Quarantine	To separate people from others if they have an illness.
1676	Thomas Sydenham publishes 'Observations Medicae.'		and prevention of disease? How did new technology such as the printing press affect medicine? How did the approach to epidemics like plague change between 1348 and 1665? 		A new process of conducting an experiment, collecting observation, then coming to a conclusion.
1683	Van Leeuwenhoek discovers	Useful websites http://www.bbc.co.uk/schools/gcsebitesize/history/shp/middleages/ Exam question stems Explain one way in which Were similar/different in (4) Explain why (12) 'Hypothesis/statement' How far do you agree? (16)		Miasma	Bad smells thought to cause disease.
	bacteria but does not link it to disease.			Gong Farmers	People employed to clean the streets of waste

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Key event timeline-Industrial medicine				
betweer	lustrial Revolution was the period en 1750-1900, also known as the 18 th and nturies. It was an age of break throughs.			
1796	Jenner develops the smallpox vaccination			
1847	James Simpson discovers the anaesthetic Chloroform.			
1854	John Snow discovers the link between the outbreak of the '54 epidemic and the Broad Street pump.			
1854	Florence Nightingale treats wounded soldiers in the Crimean war.			
1859	Florence Nightingale published 'Notes on Nursing'.			
1861	Pasteur discovers the Germ theory; Germs are present in the air and cause decay.			
1866	Joseph Lister begins to use the fist anti septic (Carbolic acid spray) in surgery.			
1875	Second Public health Act passed- it is compulsory to improve conditions.			
1879	Pasteur proves that a weakened strain of disease works as a vaccination and produced his first vaccine- against chicken cholera			
1881	Koch grows germs on potatoes and stains them purple. He identies the specific germs that cause each disease. Others can now quickly produce vaccines against a range of illnesses.			
1895	William Rontgen discovers the x-ray			

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Key Concepts <u>Enlightenment</u>- The 18th century was a period of experiment and investigation. It was believed that institutions like the government and church should not control thinking.. <u>Science and technology-</u> Scientists such as Pasteur and Koch were employed by industry and eventually funded by governments. They were to experiment to try and solve problems within industry. However, there work also helped to advance medicine. <u>Government</u>- in the second half of the 19th century the government started to get more involved in the health of the people and Public Health improved. This was because the government made a link between poor sanitation, disease and loss of money to industry. In 1867 the vote was increased and the government also became more accountable. Treatments- Although many new discoveries were made, the treatment of disease, bar surgery did not really move on during the 19th century.



Enquiry questions
 How significant was the discovery of the Germ Theory?
 Who was the most significant individual?
 How did the role of government change?
 How did surgery develop?
 Was the small pox vaccination really important?
 How significant was John Snows work on Cholera?
<u>Useful websites</u>
http://www.bbc.co.uk/schools/gcsebitesize/history/shp/modern/
Exam question stems
Explain one way in which Were similar/different in (4)
Explain why (12)

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'Hypothesis/statement' How far de	o you agree? (16)

Selected key words and definitions				
Antiseptic	Chemicals used to destroy bacteria.			
Bacteria Tiny living organisms which can only be seen usir microscopes. Cause disease.				
Aseptic	Surgery where microbes are kept out of the wound rather than being killed by antiseptic.			
Anaesthetic	Used to make a patient unconscious.			
Black period of surgery	Period when anaesthetics were used but antiseptic had not been introduced. The death rate went up as doctors tried more complex surgery.			
Chloroform	A liquid whose vapour is used as an anaesthetic.			
Germ Theory The theory that germs cause disease (usually through air).				
Infection	The formation of germs or bacteria.			
Inoculation	Infecting the body with the disease in order to help fight a more serious attack in future.			
Vaccination Injecting the body with weakened organisms to give it resistance.				
Smallpox	A dangerous disease which was often deadly.			
Patent medicine	Medicine sold for profit. During the 19 th Century most did not have an medical benefit.			
Dispensary	Where medicines are given out.			
Public Health	The well being of the whole population			
Poor Law association	Local organisations set up to care for poor.			
Privy	Outside toilets.			
Cess Pit A pit for storage of human waste				

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M	-	event timeline-Modern medicine	– Topic: Paper one Br			
a n		00 the government has taken a more le in medicine.			к	
i c	1901	Karl Landsteiner discovers blood groups.		<u> </u>		
l e r	1906	1st magic bullet created by Paul Ehrlich (Salvarsan 606)		laws and providing f investigation of caus	ses of disease such	
А	1906- 1914	Liberal Government pass series of laws focused on individual health		Technology- New te and the survival rate <u>Science</u> - Scientists a	has increased. Ne	
e t h	1929	Alexander Fleming accidentally discovered penicillin bacteria.		health. <u>Attitudes</u> - We now r		
a b	1936	2nd magic bullet created by Gerhard Domagk (prontosil).		treatment.	K	
Z	1938	Florey and Chain develop penicillin research into a working drug.		Paul Ehrlich	Created first magi	
-	1942	US companies mass produce		Alexander Fleming	Discovered germ of	
æ		penicillin.		Florey and Chain	Oxford University	
n a r	1942	Beveridge Report is written producing blueprint for welfare state.		William Beveridge	Wrote a report in	
	1948	The National Health Service (NHS) is founded.		Aneurin Bevan Watson and Crick	Labour Minister w Discovered DNA f	
	1953	DNA discovered by Crick and Watson.		•	<u>Enc</u>	
≮ 0	1954	The Salk vaccine created to combat the disease, Polio.		•	 How did new treatment What role did t How significant w 	
e	1967	The first heart transplant is carried out.		•	How has the camp	
с -	1983	The Human Genome Project to map DNA begins.		http://ww	Us vw.bbc.co.uk/scho	
ר כ -	2000	The human genome is mapped.		Fyn	<u>Exam</u> ain one way in whic	
	2007 Smoking ban introduced in public places in UK.			Explain one way in wh Ex 'Hypothesis/state		
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	· · · · · · · · · · · · · · · · · · ·	Selected key words and definitions			
-	Key Concepts overnment linked wealth with disease. It started to intervene, passing funding to help prevent and treat disease. It has also funded the	Magic bullets	These are chemical compounds designed to target specific germs in the body to treat illnesses – see Salvarsan 606.		
aus te	chnologies have made treatments such as surgery much less invasive has increased. New treatments have been developed.	Penicillin	The first antibiotic. It was from a bacteria and used to fight infections that chemical compounds could not beat.		
	cross the world work together and share finding to try and improve realise that prevention of disease is cheaper and better than	DNA	This is what makes your genes It is like a long list of instructions about what each gene in your body does. It has led to conditions such as Downs Syndrome and Cystic Fibrosis.		
	Key individuals	Welfare state	This is the concept of government supporting		
	Created first magic bullet SALVASEN 606 to combat syphilis		the individual to provide a basic level of care and support through intervention. For		
S	Discovered germ called Penicillin that could kill other germs.		example, Family Allowance and the NHS.		
	Oxford University scientists who turned penicillin into workable drug.	Liberal reforms	These were reforms that focused on the poorest in society and supporting them		
	Wrote a report in WWII outlining need for 'welfare state.'		through National Insurance and Pensions.		
	Labour Minister who developed and launched NHS.	Superbugs	These are the names given to germs that are resistant to normally used anti-biotics. For		
	Discovered DNA following X-Ray technology advancements.		example, MRSA, which needed stronger anti- biotics.		
Enquiry questions • How did new treatments develop and improve health? • What role did the government take in Health? • How significant was the development of penicillin? • How has the campaign against lung cancer evolved? <u>Useful websites</u> www.bbc.co.uk/schools/gcsebitesize/history/shp/modern/ Exam question stems Explain one way in which Were similar/different in (4) Explain why (12)		Genetic medicine.	This means medicine like the use of stem cells to repair genes or in some cases try to avoid the passing down of genetic diseases.		
		Nuclear medicine	This means treatment such as Radiotherapy		
			and Chemotherapy which has been used to treat cancers.		
		Preventative	More modern medicine has been about trying to change people's lifestyles to avoid conditions such as heart disease, type-2 diabetes and some cancers.		
	'Hypothesis/statement' How far do you agree? (16)				

Paper 1 Medicine through time

St. Benet Biscop Catholic Academy – Humanities Faculty Knowledge Organiser- Year 11 Topic: Paper one Breadth study. Medicine through time 1250-present

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Ø	Key event timeline-Industrial medicine		Types of sources	Selected key words and definitions		
e ric	Oct- Nov	First Battle of Ypres – the British stopped the Germans from capturing the port of Calais.	National Army records for individual soldiers	Terrain	The type of ground – was it hilly, muddy, flat, easy to walk and run on?	
	1914		National newspaper reports	Front line	The firing line –the trench nearest the enemy.	
В	Apr-	Second Battle of Ypres – A	Government reports on aspects of war			
A	May 1915	German attack using Chlorine gas for the first time.	Medical articles by doctors or nurses who worked in the war	Communication trench	Linked the firing line with the command support and reserve trench.	
	July- Nov	Battle of the Somme – Major attack led French and British to move German troops from Verdun.	Personal accounts of medical treatments by soldiers, doctors, nurses or others involved. (diaries)	No mans land	Area between the enemy front line trenches where the fighting took place.	
d a	1916		Photographs	Trench fever	Spread by lice and caused headaches, shivering	
Z 8	Anr	Battle of Arras – large scale	Army statistics		and pain in joints. Lasted 5 days.	
Ε	Apr- May 1917	Allied attack. Very high casualties.	Hospital records	Trench foot	From standing in waterlogged trenches, feet became numb and swollen. Some cases became gangrenous and needed amputation.	
	1917	Third Battle of Ypres – Aim to capture Passchendaele ridge near Ypres. The ground turned	Machine Gun Near Wire Tangle Darton Bolt Hole Tangle Darton Hole Tangle Darton Bolt Hole Tan	Shrapnel	Fragments of metal or lead designed to cause maximum injuries.	
t n		to mud.		Artillery	Heavy fire causing half of all casualties.	
/ie	Nov- Dec	Battle of Cambrai – first use of a large number of tanks by the British 40 000 British accuration	Enquiry questions	Gas	Weapon causing blindness, loss of taste and smell and coughing. Often led to death.	
USA V	1917 Spring 1918	British. 40,000 British casualties. The German Spring Offensive – Large scale German attack to bring the war to an end before the Americans arrived	 How was blood loss tackled during WW1? How did new weapons and technology influence wounds and treatments? What treatments developed as a consequence of War? Useful websites 	Evacuation chain	How injured soldiers accessed medical treatment from front line fighting. Stretcher bearers, Regimental Aid Post (RAP), Field Ambulance and Dressing Station, Casualty Clearing Station (CCS) and Base Hospital.	
0 Sur	Summe	The final months – the Allied	http://www.bbc.co.uk/schools/gcsebitesize/history/shp/middleages/	Thomas splint	A splint o help fractured bones heal in the leg -	
C	r-	army, reinforced by the fresh US	Exam question stems		1916	
dici	Autum n 1918 11 Nov	troops broke through German lines. Germany surrendered and the	Describe two key features of (4) How useful are sources A and B for an enquiry into (8) How would you follow up Source For an enquiry into (4)	Plastic surgery	Improved during WW1, led by Harold Gillies, who opened a specialist hospital in Kent in 1917.	
M e	1918	war ended	Paper 1 Medicine through time			