## Knowledge Organiser: Medicine 1700 - 1900

Key dates		Key characters	
1796	Edward Jenner	Edward	Pioneered the smallpox vaccine.
	successfully tests out his	Jenner	
	smallpox vaccine.	Louis Pasteur	Disproved spontaneous generation with his germ
1847	James Simpson identifies		theory; developed vaccines for anthrax and rabies;
	anaesthetic qualities of		pioneered pasteurisation.
	chloroform.	Henry Bastian	Influential doctor in Britain who believed in
1848	First Public Health Act		spontaneous generation.
	(ineffective).	Robert Koch	Used Pasteur's germ theory to identify which germs
1852	Smallpox vaccination		caused anthrax. He developed a way of dying germs
	made compulsory.		to find out which diseases they were responsible
1854	Snow proved cholera		for.
	spread through water.	Florence	Helped establish nursing as a respectable
1859	Nightingale wrote her	Nightingale	profession for women; improved the sanitation and
	book Notes on Nursing.		standard of care at military hospitals in the <b>Crimea</b>
1861	Pasteur publishes his		(became known as "the lady with the lamp");
	germ theory.		founded school of nursing at St Thomas hospital.
1865	Lister first uses Carbolic	Joseph Lister	British surgeon who pioneered antiseptic surgery
	acid as an antiseptic.		using Carbolic Acid spray.
1875	Second Public Health Act	<b>Robert Liston</b>	Surgeon known for the speed of his <b>amputations</b> .
	(effective)		Once accidentally amputated a man's testicles.
1881	Pasteur develops	James	Discovered the anaesthetic properties of
	anthrax vaccine.	Simpson	chloroform.
1882	Koch first stains	John Snow	Proved that <b>cholera</b> is spread by water, not
	microbes.		miasma. Made chloroform and ether safer to use by
			working out correct dosage. Administered
			chloroform to queen Victoria at the birth of her last
			2 children.

Key terminology				
Amputation	The <b>removal of a limb</b> by surgery.			
Anaesthetic	A drug or drugs given to produce unconsciousness before and during surgery.			
Antiseptics	Chemicals used to destroy bacteria and prevent infection.			
Chloroform	A liquid whose vapour acts as an anaesthetic and produces unconsciousness.			
Diarrhoea	A symptom of a disease (such as cholera); frequent, fluid bowel movements.			
The	A European intellectual movement of the 18th century emphasising reason and science			
Enlightenment	over religion and tradition; also known as the "Age of Reason".			
Germ theory	The theory that germs cause disease, often by infection through the air.			
Inoculation	Putting a low dose of a disease into the body to help it fight against a more serious one.			
Laissez-faire	Belief that governments should not interfere in people's lives.			
Microbe	A living organism that is too small to see without a microscope.			
Pasteurisation	A way of <b>preserving</b> food or drink by <b>heating</b> to 55 degrees C and thus killing the			
	bacteria.			
Public Health	Government legislation that made it compulsory for city authorities to dispose of			
Act (1875)	sewage, build public toilets and provide clean water. New houses had to be built to			
	better quality and food sold in shops had to be checked for safety.			
Spontaneous	The theory that <b>decaying matter</b> turns into germs.			
generation				
Vaccination	Injection into the body of weakened organisms to give the body resistance. Comes			
	from the word vacca which means cow in Latin. This was because the first vaccination			
	involved injecting cow pox samples into people to develop immunity against small pox.			

## SUMMARY OF THE PERIOD

Significant changes in medicine occur in this period. By 1900, there was a better understanding of how germs cause disease and work was being done to develop new vaccines and treatments. The government, which started out with a laissez-faire attitude to public health, began to become more involved, with compulsory small pox vaccination and the Public Health Act of 1875. Hospitals developed into clean, modern institutions thanks to the work of Florence Nightingale and more surgery became possible through the use of anaesthetics. Fewer people died as a result of surgery because of Joseph Lister's pioneering work with antiseptics.