Headings	Notes
HEALTH AND MEDICINE IN THE MIDDLE AGES	 Medieval medicine was based on the theories of the Ancient Greeks, particularly surrounding
	the four humours (blood, black bile, yellow bile and phlegm) where it was thought that most
	sicknesses were due to an imbalance between the humours.
	Treatments for imbalances included:
	Bleeding: cutting the patient so that they bled
	Cupping: placing heated metal cups on the skin to draw fluids to the surface
	Leeching: using leeches to draw blood or other fluids out of the body
	Amputation: cutting off a limb
	Common diseases during the Middle Ages included typhoid, leprosy, smallpox, dysentery
	and influenza. People often died of minor ailments and infections.
	Poor diets meant people were less able to fight illness while a lack of hygiene meant that most
	wounds became infected easily.
	Women faced the added danger of childbirth, with many dying due to blood loss or infection.
	Herbal medicines were common treatments.
	Monasteries often looked after the sick, functioning as the first hospitals in many countries.
THE BLACK DEATH	The Black Death (bubonic plague) killed at least one-third of Europe's population between
(BUBONIC PLAGUE)	1347 and 1350.
	The plague was carried by fleas on rats that arrived via ships from the Black Sea area.
	• Symptoms included oozing swellings all over the body, discoloured skin and the lungs filling
	with phlegm.
	• It was extremely contagious, spreading via sneezing or spitting, or by touching dead bodies,
	which were often left in the streets to be collected. Those infected had a 70-80% chance of
	dying within a week.
	• Many believed the disease was caused by God's anger at human sin. Others blamed groups of
	'outsiders' such as Jews or Moors.
Keywords	Summary
Four Humours	
Bleeding	
Cupping	
Leeching	
Amputation	
Disease	
Childbirth – Child Morality	
The Black Plague	
Bubonic Plague	

Headings	Notes
THE IMPACT OF THE BLACK DEATH	The death of so many people in such a short space of time changed Europe forever.
	• The feudal system, especially serfdom, went into decline because many serfs left their manors
	to replace people in the towns. This meant that the peasants who remained on the manors could
	demand better treatment because there was now fewer of them left to do the work.
	Doctors had failed to find a cure for the bubonic plague and began to question their practices.
	This led to significant changes in medicine during the Renaissance.
MEDICINE DURING THE	• In the 1500s, doctors such as Andreas Vesalius began to investigate anatomy (the study of
RENASSAINCE	the human body). Vesalius wrote On the Structure of the Human Body. This book was full of
	accurate information and very detailed sketches of human anatomy. Thanks to the Printing
	Press it was printed and widely read, allowing surgeons to operate more effectively on their
	patients.
	Doctors also dissected bodies to learn about the human bones, muscles, veins and organs.
	William Harvey discovered that the heart pumped blood around the body.
	The combination of these advances resulted in improvements to the methods used during
	surgeries.
TWENTIETH-CENTURY	• Life expectancy increased dramatically in the twentieth century, as did the quality of life. This
MEDICINE	was due to medical discoveries and inventions that were able to control or cure many diseases
	and conditions.
MEDICAL DISCOVERIES	• 1910 - Histamine (Antihistamines were discovered in 1937): a substance produced by the
	body when it suffers an immune reaction. Antihistamine drugs are now used to treat symptoms
	of mild allergies such as runny noses and watery eyes.
	• 1912 - The Discovery of Vitamins: micronutrients essential for good health. Doctors identified
	what levels of each vitamin are needed to avoid deficiency diseases such as scurvy (vitamin C)
	or rickets (vitamin D).
Keywords	Gummary
Andreas Vesalius	
Anatmony	
Printing Press	
William Harvey	
Life Expectancy	
Histamine	
Vitamins	
Scurvy	
Rickets	

Headings	Notes
MEDICAL DISCOVERIES	• 1921 – Insulin: a hormone that breaks down sugar in the bloodstream. People with Type 1
	diabetes cannot produce insulin naturally and must inject it instead.
	• 1928 - Penicillin: the first antibiotics, discovered by Alexander Fleming on bread mould.
	Penicillin is still used to treat many kinds of bacterial infection.
	• 1953 - DNA (Deoxyribonucleic Acid): a double-helix molecule present in the nucleus of cells.
	It contains the genetic information that allows all forms of life to function, grow and reproduce.
MEDICAL INVENTIONS	• 1798 – Vaccination: a vaccine is a type of medicine that trains the body's immune system so
	that it is ready to fight a disease it has not encountered before. Smallpox, which devasted the
	peoples of the Americas, has now been eradicated worldwide due to a vaccine first developed
	by Edward Jenner in the early nineteenth century. Vaccines protect people against many types
	of serious diseases such as polio, mumps and Covid-19.
	• 1853 - Endoscope: a thin fibre-optic cable with a tiny camera on one end which allows doctors
	to view inside the body to investigate symptoms or to guide surgery.
	• 1914 – Portable X-Ray Machine: Marie Curie improved the x-ray discovered by the German
	engineer Wilhelm Conrad Röntgen in 1895, creating a portable x-ray machine that was first
	used in World War I to treat wounded soldiers on the frontline.
	• 1956 – Ultrasound: High-frequency soundwaves are used to 'see' inside the body. Ultrasound
	is used to scan internal organs and tissues. Since the 1970s, they have also been used to
	monitor pregnancies harmlessly.
	• 1960 - Hormonal Contraception: the contraceptive pill for women was invented in the 1960s
	and rapidly transformed society by giving women control over their fertility. Women began to
	graduate from universities and advance their careers at much higher rates once pregnancies
	could be planned.
	• 1967 - CT Scan: a special x-ray machine that takes multiple images to produce a 3D picture of
	the inside of the body. It is often used after accidents, or to check for blood clots or unusual
	growths.
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Keywords	Summary
Insulin	
Penicillin	
Alexander Fleming	
DNA	
Vactinations	
Smallpox: Edward Jenner	
X-Ray; Marie Curie	
Ultrasound: CT Scans	
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leadings	Notes
MEDICAL INVENTIONS	• 1977 - MRI (magnetic resonance imaging): strong magnetic fields and radio waves are used
	to create detailed images of the organs and tissues. MRI scanning can detect areas of disease.
	• 1978 - In vitro fertilisation (IVF): a technique used to help achieve a pregnancy when the
	natural method has been unsuccessful. Fertilisation takes place in a laboratory and the embryo
	is transferred to a woman's uterus after several days.
SURGICAL ADVANCES	Blood types: the four blood types (A, B, O and AB) were discovered before World War I. This
	made blood transfusions possible and blood donation schemes were set up.
	• Skin grafts and plastic surgery: both were known in earlier times but became very advanced
	in the twentieth century due to their usefulness in treating war injuries. After World War I, skin
	grafts (healthy skin taken from elsewhere on the patient) were used to help reconstruct faces
	that had suffered burns or shrapnel damage. During World War II, plastic surgery was likewise
	used to help repair faces.
	• Transplant surgery: the first successful kidney transplant took place in 1954 while the first
	successful heart transplant took place in 1967.
	 Laser surgery and keyhole surgery: these are less invasive surgical methods, which lower the
	risk of infection and greatly reduce recovery time.
eywords	Gummary
IRI	
vitro fertilisation	
lood Types	
kin Grafts	
lastic Surgery	
ransplant Surgery	
ransplant Surgery aser Surgery	

Medicine Keywords

Keywords	Definition	
Amputation	Cutting off a limb.	
Anaesthetics	Drugs that makes a person unable to feel pain.	
Antibiotic	A substance used to fight bacterial infection in the body.	
Antiseptics	Make clean or free of germs.	
Beveridge Report	British Government report during World War II that led to the establishment of the welfare state.	
Bleeding	Cutting the patient so that they bleed.	
Bloodletting	Taking blood from a sick person to cure or heal them.	
Child mortality	The death of children over one month and under the age of five.	
Contraceptive Pill	Contains hormones that temporarily prevent pregnancy (when taken correctly and regularly), allowing women to control their fertility.	
Cupping	Placing heated metal cups on the skin to draw fluids to the surface.	
Four humours	 Four major fluids in the body - blood, yellow bile, black bile, phlegm - which Ancient Greeks and Romans believed to cause disease if they were not in balance. 	
Germ theory	The discovery that germs spread disease.	
Inoculation	 Giving a weak form of a disease to a person by injection to protect against that disease (vaccination) 	
Leeching	Worms used for bloodletting.	
Organ transplatation	The replacement of failing organs with the healthy ones.	
Pandemic	Worldwide spread of a new disease.	
Pattern of change	How changes occur in a particular area of history over a period of time.	
Penicillin	The first antibiotic, used to treat many kinds of bacterial infection.	
Pharmaceutical drugs	Manufactured medications developed through experimentation.	
Public health	The overall health of the population, as protected and improved by the actions of government.	
Vaccination	Giving a person a vaccine to prevent them from developing a disease (inoculation)	
Vaccines	 Medicines designed to prompt the immune system to develop the necessary antibodies to fight off a particular disease by exposing it to a non-dangerous version of the disease. 	
Welfare States	 Programmes where governments sought to greatly expand access to education, health care and other social services, often making these free of charge. 	