<u>Medicine Through Time</u> : Medicine in the Renaissance Period, c.1500 – c.1700	<b>Transference</b> – belief that disease could be transferred from a patient to an object or animal. Eg; warts were rubbed with onions
The Big Picture	<b>Thermometers and Barometers –</b> used to investigate the connection between the atmosphere
The renaissance was a period of scientific discovery and great advances in knowledge about anatomy and how the body works.	and disease.
The Church had less influence over education and fewer people believed God and sin	<b>Colour treatment</b> – matching the colour of remedies to the illness eg; red food and wine for
were responsible for disease.	smallpox
Individuals like Vesalius, Paracelsus, Sydenham and Harvey were prepared to challenge	What's old - continuity with the middle ages (*see you knowledge organiser for medieval medicine)
old ideas – by the end of the 1600s most physicians no longer believed in the Theory of	*Regimen sanitatis <b>*Theory of the Four Humours</b> *bleeding and purging *sin
the Four Humours. It was accepted by doctors that disease came from outside the body.	*herbal remedies *amulets and charms *miasma * pomanders
Institutions like the Royal Society encouraged scientific thinking and experimentation and	The printing press
the spread of new ideas was speeded up by the printing press.	Invented in late middle ages, 1440, it revolutionised the sharing of new ideas. Books could be
BUT there was very little progress in treatment of the sick as the true cause of disease was still	mass produced and so were cheaper. There were fewer errors and accurate diagrams could
not known. Miasma was still the most commonly believed cause of disease and many people	be reproduced. Printing presses were not owned by the Church so they had less influence
still believed in the Four Humours and bleeding.	over what people could read. Before this books had been copied by hand by monks in
Key individuals	monasteries.
Vesalius – professor of surgery at Padua University. Performed his own dissections. Corrected	Key books and dates
300+ mistakes of Galen's. Revolutionised the teaching of medicine; encouraged medical	The Six Tables, 1538 – Vesalius – Six large anatomical drawings that first challenge Galen's
students to do their own anatomy and research. After him anatomy became a cornerstone of	anatomy. On the Fabric of the Human Body, 1543 – <u>Vesalius</u> – detailed drawing and text of
medical teaching. Inspired others such as Harvey.	human anatomy, allows medical students to see that Galen's anatomy is incorrect.
Paracelsus – physician and alchemist he rejected the Theory of the Four Humours. Said	On the Motion the Heart and Blood, 1628 – <u>William Harvey</u> – explained circulation; how blood is
disease came from outside the body. Used chemicals to treat illness eg; mercury to treat	pumped around the body by the heart.
syphilis.	Medical Observations, 1676 – <u>Thomas Sydenham</u>
William Harvey – discovered that <u>blood circulates</u> around the body, not continuously made	<u>The Royal Society</u>
and used up ('brew & burn') as Galen said. Harvey's work showed that because there was	First met in 1660 – received its royal charter from Charles II in 1662. Royal approval gave the
only a fixed amount of blood in the body the Theory of 4 Humours and treatments like	society more credibility. Its aim was to promote knowledge of the natural world through
bleeding must be wrong.	observation and experiment (we now call this science) it met weekly to watch experiments
Thomas Sydenham – The 'English Hippocrates' - insisted that doctors should observe patients	and discuss scientific topics. They kept a library and published the journal Philosophical
carefully not rely on books. He said - disease came from outside the body; each disease had	Transactions to record and share news od experiments and discoveries.
a separate cause; disease could be categorised into groups. This meant did not come from	Care
within the body as the Theory of 4 Humours said and every disease had its own cure	<b>Doctors</b> – only the rich could afford to see a doctor.Had to be trained at university and
<b>Robert Hooke</b> – English Scientist, head of experiments at the <u>Royal Society</u> . Used an early	needed a licence.
microscope to draw pictures of plant cells and fleas in the published in <b>The Micrographia</b>	Apothecaries – sold remedies prescribed by doctors, also sold charms and amulets.
van Leeuwenhoek – observed 'animalcules' under the microscope – first record of bacteria	Surgeons – some professional surgeons trained at university but could only be afforded by the
BUT THERE ROLE IN CAUSING DISEASE WAS NOT KNOWN AT THIS TIME.	rich. Surgery was a last resort due to the problems of pain, blood loss and infection.
Key Terms	<b>Barber surgeon</b> – performed small operations and pulled teeth many still bled patients as
<b>Humanism</b> – new attitude in learning that said God was not responsible for everything and	traditional treatments continued to be popular.
encouraged people to investigate the natural world.	Quacks – people who claimed to be doctors, sold cure all medicines – quack medicines at
<b>Dissection</b> - cutting open the human body to study its <b>anatomy</b> (structure).	fairs and markets.
Physiology – how the body works. Eg; circulation.	<b>Women</b> – most people could not afford a doctor and still lived in the countryside so could not get to an apothecary or barber surgeon, they still relied on women in their family or
<b>The Reformation</b> – when new protestant churches replaced the Catholic Church in some parts	community for treatment and care.
of Europe. This led to the declining influence of the Church in many areas.	<b>Pest house</b> – a place where those with infectious disease could be isolated from the rest of a
<u>What's new – progress/change</u>	community and receive care.
<b>Dissolution of the Monasteries</b> – <b>1536</b> , England's monasteries by Henry VIII. All of England's	The Great Plague 1665 - continuity and change
1,100 hospitals except one, <u>St. Bartholomew's</u> in London, were closed.	Continuity with the Black Death middle ages
Alchemy – an early form of chemistry. Alchemists tried to find ways of turning lead in to gold	<ul> <li>Strong religious belief – days of fasting and prayer were organised by King Charles II</li> </ul>
and substances that would prolong life (the philosopher's stone)	<ul> <li>Supernatural ideas – people wore amulets to ward off plague</li> </ul>
latrochemistry – the use of chemicals to treat illness eg; <u>antimony</u> and <u>mercury</u> were used to	<ul> <li>Miasma – tar was burned in the streets. Plague doctors masks held herbs and dried flowers</li> </ul>
sweat disease out of the body	to purify the air. People carried pomanders.
New medicines – the discovery of the New World and explorations led to new herbs being	Change
used in and as medicines; sarsaparilla, ipecac, cinchona (quinine)_coffee, tobacco	<ul> <li>Local authorities were better able to enforce laws – licences were needed to leave or</li> </ul>
Syphilis – STD first appeared in Europe in early 1500s, believed to have come from the New	entre towns. Theatres and race meetings were banned. Quarantine (28 days) was
World. Believed to be caused by bathing – London's stews are closed	enforced.