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|  | **Autumn 1** | **Autumn 2** | **Spring 1** | **Spring 2** | **Summer 1** | **Summer 2** |
| Year 12 | **A1-Working within the Health and Science Sector*** The purpose of policies, procedures, personal codes and key principles of ethical practice.

**A2-The Healthcare Sector*** An overview of the healthcare sector, its historical context and development over time. Considering diverse services, national framework and funding and use of technology.

**A3 Health, and Environmental Regulations in the Health and Science sector.** * Key legislation, regulations and how to assess and minimise hazards and risks.

**A4 Health and Safety regulations applicable to the healthcare sector.*** Purpose of workplace health and safety regulations in the healthcare sector

**A5- Managing information and data within the health and science sector.** Common methods used to collect data and considerations when collecting and recording.**A7- Good scientific and clinical practice*** Principles of good practice within a setting. What is a SOP, why do we follow them and how can we access them.

**B1- Core Science concepts*** 3 Principles of cell theory, types of cells and structure and functions of organelles found in eukaryotic cells. Structure and function of specialised cells in complex multicellular organisms and role of a light microscope and how to calculate magnification.

**B2- Further science concepts in health** * Musculoskeletal system
* Cardiovascular system

**Core Skill 1-** Plan and Develop Person- centred Care Skills  | **A1-Working within the Health and Science Sector** * Importance of adhering to quality standards, occupations and educational routes/ progress into the sector.

 **A2-The Healthcare Sector*** Job descriptions, career pathways and evidence-based practice. Public health approaches and national population health considering improvement initiatives.

**A3 Health, and Environmental Regulations in the Health and Science sector.** * How health and safety at work id promoted and how to deal with situations within a healthcare environment that can cause harm.

**A4 Health and Safety regulations applicable to the healthcare sector.*** Purpose of specific health and safety regulations guidance and regulatory bodies and the overarching responsibilities of trained first aiders.

**A5- Managing information and data within the health and science sector.** * Importance of accuracy when recording, considerations when using technology and how personal information is protected.

**A6- Managing personal information*** Your role in relation to record keeping and audits and why we collect and protect information.

**A7- Good scientific and clinical practice*** Potential impacts of cleaning and preparing work area. Potential impacts of not maintain equipment. Calibrating equipment and how to escalate concerns of equipment.

**B1- Core Science concepts*** Cell cycle- Function of mitosis in nuclear division and purpose of each stage of cell cycle
* Large molecules- molecular structure and how they are used within the body

**B2- Further science concepts in health** * Respiratory system
* Digestive system

**Core Skill 2-** Communication skills | **A2-The Healthcare Sector*** Job descriptions, career pathways and evidence-based practice. Public health approaches and national population health considering improvement initiatives.

**A4 Health and Safety regulations applicable to the healthcare sector.*** Purpose of guidelines produced Resuscitation Council UK and the purpose of manual handling regulations and training.

**A6- Managing personal information*** Common abbreviations, types of information when to share data.

**A7- Good scientific and clinical practice*** How to order and manage stock and the consequences of incorrectly storing products, materials and equipment.

**A9- Health and Well being.** * Approaches to health care and changes. How to recognise signs and symptoms of pain and discomfort and how to work and manage this in a person centred way.

**B1- Core Science concepts*** Enzymes- properties and functions of enzymes determined by their tertiary structure
* Exchange and transport mechanisms – How surface area volume ratio and additional factors affect rate of exchange. Structure of cell- surface membrane and mechanisms of cellular exchange and transport.
* Particles and radiation
* Measurements and units

 **B2- Further science concepts in health** * Endocrine system
* Nervous system

**Core Skill 3- Teamworking**  | **A6- Managing personal information*** Different formats used when sharing information, reason for record keeping and how this contributes to overall care and the responsibilities of record keeping and when to escalate issues.

**A8-Providing person centred care.** * Explore a range of relevant legislation and regulatory bodies.
* How physical and mental functions and care needs inform person centred care.
* Key values when providing care and support.

**A9- Health and Well being.*** The purpose of the Prevention Agenda and the concept of preventative approaches.
* Ways in which health promotion is used to support Prevention Agenda and the overarching principles of the opportunistic delivery of health promotion through the Making Every Contact Count initiative.
* Lifestyle factors, methods of holistic care and signposting to intervention.

**A10- Infection prevention and control in health specific settings.** * Techniques for infection control and why they are important in stopped the spread of infection
* Importance of handwashing techniques, personal hygiene and our own practices in relation to infection control

**A11- Safeguarding** * Meaning of safeguarding and key principles.
* Relevant legislation, policies and procedures explored as well as factors that can contribute to a person being vulnerable to harm and abuse.
* A range of types of abuse, and relevant signs and symptoms.
* What action to take is abuse is disclosed or suspected.

**B1- Core Science concepts*** Genetics- purpose of deoxyribonucleic acid (DNA) and ribonucleic acid (RNA) as the carrying molecules of genetic information
* Homeostasis and psychological measurements
* Classifications of diseases and disorders

**B2- Further science concepts in health** * Renal system
* Integumentary system

**Core Skills 4- Reflective Evaluation**  | **A8-Providing person centred care.*** Personalisation Agenda 2012 and the application of relevant legislation. Using holistic approaches to healthcare.
* Range of communication techniques and barriers and how to support and overcome.

**A10- Infection prevention and control in health specific settings.** * Scientific principles of cleaning, disinfecting, sterilising and decontamination
* Differences in procedures
* Meaning of anti-microbial resistance including how this can impact infection controlled and the ways we can reduce this.

**A11- Safeguarding** * Actions taken to reduce chances of abuse
* Radicalisation and the Prevent Strategy (2011)
* Importance of conflict of interest and positive behaviours

**B1- Core Science concepts*** Immunology- Charactersitics of key microorganism
* Definitions of types of pathogens, ways of entering the body and impacts on health.
* How infectious diseases spread amongst populations and communities
* Antigens, anitbodies and the link between these and the initation of the body’s response
* Body defence mechanisms and the difference between cell-mediated immunity and antibody-mediated immunity
* The role of T and B memory cells in the secondary immune response
* Role and consideration of using Magnetic Resonance Imaging (MRI)
* Epidemiology and health promotion

**B2- Further science concepts in health** * Reproductive system
* Cancer- types, development, impact and management of cancer
* Difference between benign and malignant tumours

**Core Skill 5- Researching**   | **A8-Providing person centred care.*** Consideration of care needs and other conditions that may impact care. How to promote independence and self-care and the role of the practitioner in supporting needs.
* The Nursing 6 C’s, the importance of these and how to manage relationships/ when to safeguard.

**B1- Core Science concepts** |

**T Level Health**