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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**