BTEC BTEC's own resources

Table 5.2: The main functions of the 10 body systems

Name of system	Main functions
Cardiovascular system	 Major transport of materials to and from cells Distributes heat around the body and assists in temperature regulation Defence of the body Water regulation
Respiratory system	 Maintains oxygen supply to cells Removes carbon dioxide and water from the body
Digestive system	 Reduces complex food molecules to simple substances capable of being absorbed and delivered to cells Removes undigested waste at intervals The liver is the main producer of important chemicals
Renal system	 Removes excess water and salts Eliminates nitrogen-containing waste in the form of urea Assists in the production of new red blood cells Involved in the maintenance of blood pressure
Nervous system	 Receives and interprets information from the environment Controls and co-ordinates the internal organs Associated with the endocrine system Reflex actions protect the body from injury
Endocrine system	 Controls and co-ordinates organs Maintains blood glucose, water and salt levels Assists in reproduction and growth
Reproductive system	 Produces gametes that can create new life when united with a gamete from the opposite sex Assists in growth Responsible for secondary sexual characteristics
Lymphatic system	 Removes excess tissue fluid and proteins from spaces between cells Defence of the body Transports fatty acids from the digestive system
Musculo- skeletal system	 Effects movement (with the nervous system) Stores calcium Protects vital organs Supports organs Manufactures many blood cells
Immune system	 Defends against invasion by micro-organisms Has an anti-cancer role Rejects material perceived as 'foreign'

From: Stretch B4 Whitehouse M (2010) Health + Social
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Pearson, Harlow.