Subject: GCSE Physical Education

<u>Year 10</u>

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Autumn HT 1 - The	Autumn HT 2 - Muscular	Spring HT 1 -	Spring HT 2 –	Summer HT 1 –	Summer HT 2 – The
structure and function of	Systems Continued,	Components of	Applying the	Preventing Injury in	<u>Cardiovascular,</u>
the Skeletal and	Movement Analysis and	Fitness continued,	Principles of Training	Physical Activity and	Respiratory Systems,
<u>Muscular Systems</u>	Components of Fitness	coursework write up	and coursework write	Training	Aerobic & Anaerobic
		and Training	<u>up</u>		<u>exercise</u>
		<u>Methods</u>			
Location of the major	• The roles of Muscles in	COURSEWORK	Principles of training	How the risk of	Double-circulatory
Bones in the body;	movements; Agonist,	PIECE	and	injury in physical	system (systemic
Cranium, Vertebrae,	Antagonist, Fixator	 Applying the 	be able to apply them	activity and	and
Ribs, Sternum, Clavicle,		components of	to personal	sport can be	pulmonary).
Scapula, Humerus, Ulna,	COURSEWORK PIECE	fitness to chosen	exercise/training	minimised and be able	x know the different
Radius, Carpals,	 Movement analysis 	sport/activity.	programmes:	to apply examples,	types of blood
Metacarpals, Phalanges,	preparation. Model	Ranking the COF	specificity, overload,	including:	vessel:
Pelvis, Femur, Patella,	examples and planning	from 1-10	progression,	- personal protective	 The pathway of
Tibia, Fibula, Tarsals,	 Movement analysis write 	 Justification of 	reversibility.	equipment	blood through the
Metatarsals	up, application of movement	ranking in relation	 FITT (Frequency, 	- correct	heart:
 Function of the 	analysis to chosen	to chosen	Intensity, Time, Type)	clothing/footwear	- atria
Skeleton; Support,	sport/activity and skill.	sport/activity.	and be able to apply	 appropriate level of 	- ventricles
Posture, Protection,	 Lever Systems and their 	 Write up of Fitness 	these	competition	 bicuspid, tricuspid
Movement, Blood Cell	use in Physical activity and	Analysis	elements to personal	 lifting and carrying 	and semilunar valves
Production, Storage of	Sport; 1st class, 2nd Class,	 Identifying 	exercise/training	equipment safely	 septum and major
Minerals	3rd Class, Mechanical	strengths and	programmes.	- use of warm up and	blood vessels:
 Types of Synovial Joint 	Advantage	weaknesses from		cool down.	- aorta
 Types of movement at 	 Planes of movement; 	COF table	COURSEWORK PIECE	 Know potential 	 pulmonary artery
Hinge joints and Ball and	Frontal, Transverse, Sagittal	 Preparation and 		hazards in a range of	- vena cava
Socket joints; Flexion,	 Axes of Rotation; Frontal, 	write up of Fitness		physical activity and	 pulmonary vein.
Extension, Abduction,	Transverse, Longitudinal	Evaluation.		sport settings and be	 The definitions of:
Adduction, Rotation,	Know the following	Know different		able to apply	- heart rate
Circumduction	components of fitness:	types of training,		examples, including:	- stroke volume
 Other components of 	cardiovascular	definitions and		- sports hall	 cardiac output.
Joints; Ligaments,	endurance/stamina: Cooper	examples of:		- fitness centre	 The role of red
Cartilage, Tendons	12 minute run/walk test	continuous, fartlek		 playing field 	blood cells
Location of the major	multi-stage fitness test	 interval, circuit 		- artificial outdoor	 The pathway of air
muscle groups;	 Speed:30m sprint test 	training, weight		areas	through the
Trapezius, Deltoid,	 Strength: grip strength 	training,		 swimming pool. 	respiratory
Latissimus Dorsi, Bicep,	dynamometer test	plyometrics, HIIT			system:
Tricep, Pectorals,	1 Repetition Maximum (RM)				- mouth

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Abdominals, Gluteals,	Power: `standing jump' or	(High Intensity		- nose
Quadricep, Hamstring,	'vertical jump' tests	Interval Training).		- trachea
Gastrocnemius	• Flexibility	 Key components 		- bronchi
	-Know the definition of	of a warm up and		- bronchiole
	flexibility: `sit and reach'	be able to apply		- alveoli
	test	examples:		The role of
	 Agility: Illinois agility test 	pulse raising,		respiratory muscles
	 Balance: `stork stand' test 	mobility, stretching,		in breathing:
	 Co-ordination: `wall throw' 	dynamic		- diaphragm
	test	movements, skill		- intercostals
	 Reaction time: reaction 	rehearsal		 The definitions of:
	time ruler test	 Physical benefits 		- breathing rate
	 Collect and use data 	of a warm up,		- tidal volume
	relating to the components	including effects		- minute ventilation
	of fitness	on: warming up		 Alveoli as the site
		muscles/preparing		of gas exchange.
		the body for		• Definitions of:
		physical activity,		- aerobic exercise
		body temperature,		- anaerobic exercise.
		heart rate, flexibility		 Practical examples
		of muscles and		of aerobic and
		joints, pliability of		anaerobic activities
		ligaments and		in relation to
		tendons, blood flow		intensity and
		and oxygen to		duration.
		muscles, the speed		
		of muscle		
		contraction.		
		Key components		
		of a cool down and		
		be able to apply		
		examples: low		
		intensity exercise		
		stretching		
		Physical benefits		
		of a cool down,		
		including:	-	
	-	- helps the body's	1 . 1	
		transition back to a	diminan due	
		resting state	ATTUT ATTAMS	
L		recting state		

gradually lowers	
neart rate	
gradually lowers	
emperature	
circulates blood	
and oxygen	
gradually reduces	
preathing rate	
increases removal	
of waste products	
such as	
actic acid	
reduces the risk of	
nuscle soreness	
and stiffness	
aids recovery by	
stretching muscles	



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