Course Mapping Guide KS4 Theory PE and Vocational Sport



Course List

Physical Education

These courses have been created by our team of experienced secondary Physical Education teachers. Each set of courses are separated into topic strands with a wide range of practical examples, data analysis and topic nuggets available throughout.



Physical Education GCSE: AQA

View course →

*This course is on rolling release



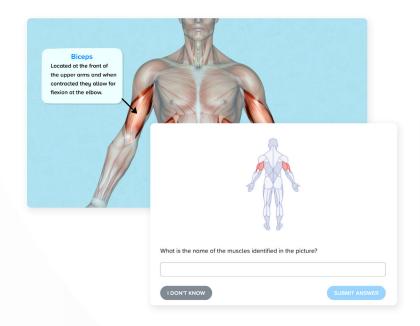
Courses coming soon:

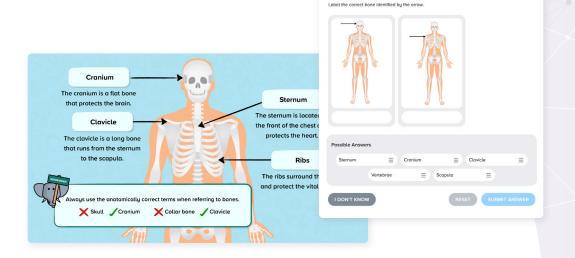
IGCSE GCSE PE 0413
OCR GCSE PE J587
EDEXCEL GCSE PE 1PE0
BTEC Tech Award in Sport 603/7068/3
Cambridge Nationals Sport Studies J829
Cambridge Nationals Sport Science J828
City and Guilds L2 Award, Certificate &
Diploma in Sport (QCF) 4863-23
NCFE L2 Certificate & Diploma in Sport
601/3037/4 or 6

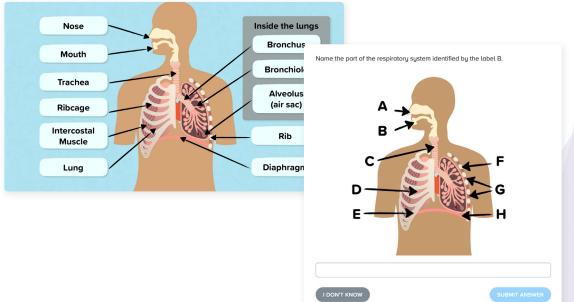
PE Special Feature!

Recall and Review Nuggets

Testing specific A01 subject knowledge quickly identifying misconceptions and gaps in learning to the teacher.









Course Content

Physical Education GCSE: AQA



Diagnostics 5 Strands 5 Nuggets 60

*This course is on rolling release and new material is added frequently

Strands

Strand	Nuggets
Diagnostics	5
Recall & Review	4
Applied Anatomy & Physiology	32
Movement Analysis	11
Use of Data	13

Nuggets

1	AQA				CENTURY											
Strand	Spec Code	Diagnostic	Nugget Code	Nugget Name	Nugget Summary											
			PE0.01	Diagnostic: Skeletal System	Diagnostic covering the structure and function of the skeleton, the types of bones, joints and structure of the joint. Also covers the effects of exercise on the skeletal system.											
			PE0.02	Diagnostic: Muscular System	Diagnostic covering the structure and function of the muscular system and the effects of exercise on the muscular system.											
			PE0.03	Diagnostic: Cardiovascular System	Diagnostic covering the structure of the cardiovascular system and blood vessels and effects on it during exercise. Includes measuring and interpreting heart rate and cardiac output data.											
Diagnostics	_	ı	PE0.04	Diagnostic: Respiratory System	Diagnostic covering the structure and the effects of exercise on the respiratory system, mechanics of breathing, anaerobic and aerobic respiration and gaseous exchange. It also includes how to interpret a spirometer trace.											
Diag		-	-	PE0.05	Diagnostic: Movement Analysis	Diagnostic covering levers, mechanical advantage, planes and axes, and movements of specific sporting skills.										
				-	-	-			-	-		-	-	PE0.06	Diagnostic: Components of Fitness	Diagnostic covering all the components of fitness, applying components of fitness to practical examples and fitness testing.
														PE0.07	Diagnostic: Principles of Training	Diagnostic covering the principles of training and evaluate the types of training to improve different components of fitness.
				PE0.08	Diagnostic: Optimising Training	Diagnostic covering how to prevent injuries, seasonal aspects of training, training intensities and specific training techniques. Evaluate the importance of a warm up and cool down.										

	AQA				CENTURY
Strand	Spec Code	Diagnostic	Nugget Code	Nugget Name	Nugget Summary
U			PE0.09	Diagnostic: Classification of Skills	Diagnostic covering skills, abilities, classification of skills and types of goal.
Diagnostic	_	ı	PE0.10	Diagnostic: Goal Setting, Information Processing, Guidance and Feedback	Diagnostic covering types of goal setting, the information processing model and types of guidance and feedback.
			PE0.11	Diagnostic: Mental Preparation	Diagnostic covering arousal and inverted-U theory, arousal management techniques, aggression, personality types and intrinsic and extrinsic motivation.
Review	3.1.1.1	Skeletal	PER.01	Recall: The Skeletal System	Identify the names and locations of the bones of the body.
Recall & Review	3.1.1.4	Muscular System	PER.02	Recall: The Muscular System	Identify the names and locations of the muscles in the body.
Recall &	3.1.1.2.5	Cardio- Respiratory System	PER.03	Recall: The Cardiovascular System	Identify the chambers, valves and blood vessels of the heart.
Reca	3.1.1.2.1		PER.04	Recall: The Respiratory System	Identify the structure of the respiratory system.
_	3.1.1.1	Skeletal System	PE1.01	The Structure of the Skeletal System	Identify the structure of the skeletal system.
Physiology	3.1.1.1.2		PE1.02	Types of Bones	Describe the types of bone and identify the two types of skeleton.
ny & Ph	3.1.1.1.3		PE1.03	Functions of the Skeleton	Describe the functions of the skeleton and apply to sporting examples.
Applied Anatomy &	3.1.1.1.5		PE1.04	The Structure of a Joint	Describe the types and structure of a synovial joint.
Applied	3.1.1.4.1		PE1.05	Effects of Exercise: The Skeletal System	Describe the effects of exercise on the skeletal system
	3.1.1.6/7		PE1.06	Types of Joints & their Movements	Identify the types of joints and the range of movement available at each joint.



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	3.1.1.4	Muscular System	PE1.07	The Structure of the Muscular System	Identify the Structure of the Muscular System.
	3.111.8		PE1.08	The Function of the Muscular System	Identify the function of the muscular system and how it works to create movement in the body.
	3.1.1.4.1		PE1.09	Effects of Exercise: The Muscular System	Describe the effects of exercise on the muscular system.
	Supplementary	Ę	BI2.40	The Circulatory System	Describe the double circulatory system and the structure and function of the blood.
Physiology	3.11.2.4		PE1.10	Structure of the Cardiovascular System	Identify the blood vessels and chambers of the heart.
	3.1.1.2.3	ılar System	BI2.47	Explaining the Structure of Blood Vessels	Explain how blood vessels are adapted for their function.
બ્ ઇ	Supplementary	Cardiovascu	BI2.44	Measuring Heart Rate	Describe what causes a pulse and show how it can be used the measure pulse/heart rate.
Anaton	3.11.2.3	Ca	PE1.11	Redistribution of Blood During Exercise	Describe the process of redistribution of blood during exercise.
Applied Anatomy	3.1.1.2.6		PE1.12	Cardiac Output	Describe the structure and functions of parts of the heart. Define cardiac output, explain stroke volume & give the equation for cardiac output.
	3.1.1.2.6		BI4.43	Calculating Cardiac Output I	Calculate cardiac output. Word problems and no unit conversions.
	3.1.1.2.6	System	BI4.47	Describing Cardiac Output Data	Describe patterns in cardiac output data in graphs and tables. Includes calculating cardiac output with no unit conversions.
	3.1.1.2.6	Cardiovascular S	BI4.48	Interpreting Cardiac Output Data	Interpret data to explain cardiac output data and apply knowledge. Includes calculating cardiac output with no unit conversations.
	3.1.1.4.1	Cardio	PE1.13	Effects of Exercise: The Cardiovascular System	Describe the effects of exercise on the cardiovascular system.
	3.1.4.1.2		PE1.14	Interpreting Heart Rate Graphs	Analyse a heart rate graph before, during and after exercise.



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	3.1.1.2.1		PE1.15	The Structure of the Respiratory System	Identify the structure of the respiratory system.
	Supplementary		PE1.16	Mechanics of Breathing	Explain the mechanical process of breathing.
	3.1.1.2.2		PE1.17	Gaseous Exchange	Describe the structure and function of the human gas exchange system.
	3.1.1.2.2		BI2.36	How Lungs are Adapted for Gas Exchange	Identify main features of the lungs and explain how they facilitate air gas exchange in humans.
	3.1.1.2.2	stem	BI1.47	Exchange Surfaces: Alveoli	Describe the structure of alveoli and explain how they are adapted for exchanging materials.
	3.1.1.2.7	Respiratory System	PE1.18	Interpretation of a Spirometer Trace	Analyse a spirometer trace identifying the different long volumes.
Analysis	3.1.1.2.8	Respi	SP3.10	Physiology: Respiration	An experiment to investigate how exercise affects pulse-rate and ventilation rate.
	3.1.1.4.1		PE1.19	Effects of Exercise: The Respiratory System	Describe the effects of exercise on the respiratory system.
Movement	3.1.1.3.2		PE1.20	Aerobic & Anaerobic Respiration in Sport	Describe aerobic and anaerobic respiration and apply to sporting examples.
	3.1.1.3.3		PE1.21	EPOC: Excess Post-exercise Oxygen Consumption	Describe oxygen debt is and explain why it occurs.
	3.1.1.3.4		PE1.22	The Recovery Process from Vigorous Exercise	Evaluate the different methods used to support the recovery process from vigorous exercise.
	3.1.1.4.1	ı	PE1.23	Summary: Effects of Exercise on Body Systems	Describe the immediate, short-term and long-term effects of exercise on the body systems.
	3.1.2.1.1	Analysis	PE2.01	First, Second & Third Class Levers	Describe the components of first, second and third class levers and apply to practical examples within the body.
	3.1.2.1.2	ment Ana	PE2.02	Mechanical Advantage	Describe mechanical advantage and identify the lever systems with the most and least mechanical advantage.
	3.1.2.2.1	Movement	PE2.03	Planes & Axes	Describe the planes of movement and axes of rotation and identify how they link together to create movement.



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	3.1.2.1.3		PE2.04	Movement Analysis: Flexion & Extension	Analyse the movement at all the joints for flexion and extension.
	3.1.2.1.3		PE2.05	Movement Analysis: Push Up	Analyse the movement of a push-up.
. <u>v</u>	3.1.2.1.4	vo .	PE2.06	Movement Analysis: Abduction & Adduction	Analyse the movements of abduction adduction and circumduction at the ball and socket joints.
t Analysis	3.1.2.1.3	t Analysis	PE2.07	Movement Analysis: Throw-in	Analyse the movement of a throw-in at the elbow.
Movement	3.1.2.1.3	Movement	PE2.08	Movement Analysis: Running Technique	Analyse the movement of the running technique.
Σ	3.1.2.1.3	-	PE2.09	Movement Analysis: Vertical Jump	Analyse the movement of the vertical jump.
	3.1.2.1.3		PE2.10	Movement Analysis: Squat	Analyse the movement of a squat.
	3.1.2.1.3		PE2.11	Movement Analysis: Kicking a Ball	Movement analysis of kicking a ball.
	3.1.3.1.1		PE3.01	Health & Fitness	Describe and explain the relationship between health and fitness and the role exercise plays in both.
	3.1.3.2.1	SS	PE3.02	Cardiovascular Endurance (aerobic power)	Define cardiovascular endurance and suggest why it is important for different sports performers. Explain how cardiovascular endurance can be measured using a fitness test.
Physical Training	3.1.3.2.1	s of Fitness	PE3.03	Muscular Endurance	Define muscular endurance and suggest why it is important for different sports performers. Explain how muscular endurance can be measured using a fitness test.
hysical	3.1.3.2.1	Components	PE3.04	Strength (maximal, static, dynamic and explosive)	Define different types of strength and suggest why they are important for different sports performers. Explain how strength can be measured using a fitness test.
	3.1.3.2.1	8	PE3.05	Power / explosive strength (anaerobic power)	Define power and suggest why it is important to different sports performers. Describe how to test power and analyse the practicality, validity and reliability of the test.
	3.1.3.2.1		PE3.06	Flexibility	Define flexibility and suggest why it is important for different sports performers. Explain how flexibility can be measured using a fitness test.



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Strand	Spec Code	Diagnostic	Nugget Code	Nugget Name	Nugget Summary
	3.1.3.2.1		PE3.07	Speed	Define speed and suggest why it is important for different sports performers. Explain how speed can be measured using a fitness test.
	3.1.3.2.1		PE3.08	Agility	Define agility and suggest why it is important for different sports performers. Explain how agility can be measured using a fitness test.
	3.1.3.2.1		PE3.09	Balance	Define balance and suggest why it is important for different sports performers. Explain how balance can be measured using a fitness test.
	3.1.3.2.1	SS	PE3.10	Co-ordination	Define coordination and suggest why it is important for different sports performers. Explain how coordination can be measured using a fitness test.
	3.1.3.2.1	ts of Fitness	PE3.11	Reaction time	Define reaction time and suggest why it is important for different sports performers. Explain how reaction time can be measured using a fitness test.
	Supplementary	Components	PE3.12	Body composition	Define body composition and suggest why it is important for different sports performers. Explain how body composition can be measured using different tests.
Training	3.1.3.2.1	8	PE3.13	Summary: Components of Fitness	Define the components of fitness and apply them to practical examples.
Physical Training	3.1.3.2.4		PE3.14	Summary: Fitness Tests	Describe all of the fitness tests and understand which component of fitness they measure.
_	3.1.3.2.3		PE3.15	Benefits & Limitations of Fitness Tests	Explain the reasons why fitness tests are used. Evaluate the limitations of fitness testing.
	3.1.3.2.5		PE3.16	Recording Fitness Test Data	Describe the units fitness test data is measured in and understand the difference between qualitative data and quantitative data.
	3.1.3.3.1	Ð	PE3.17	Principles of Training	Explain the key principles of training (SPORT) and overload (FITT).
	3.1.3.3.2	of Training	PE3.18	Applying Principles of Training	Apply the principles of training to a training programme.
	3.1.3.3.3	Principles	PE3.19	Circuit Training	Describe the purpose of circuit training. Discuss the advantages and disadvantages of circuit training.
	3.1.3.3.3	<u>.</u>	PE3.20	Continuous Training	Describe the purpose of continuous training. Discuss the advantages and disadvantages of continuous training.

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	3.1.3.3.3		PE3.21	Fartlek Training	Describe the purpose of fartlek training. Discuss the advantages and disadvantages of fartlek training.
	3.1.3.3.3	5	PE3.22	Interval Training	Describe the purpose of interval / HIIT training. Discuss the advantages and disadvantages of interval / HIIT training.
	3.1.3.3.3	of Training	PE3.23	Static Stretching	Describe the purpose of static stretching. Discuss the advantages and disadvantages of static stretching.
	3.1.3.3.3	Principles of	PE3.24	Weight Training	Describe the purpose of weight training. Discuss the advantages and disadvantages of weight training.
ning	3.1.3.3.3	ā	PE3.25	Plyometric Training	Describe the purpose plyometric training. Discuss the advantages and disadvantages of plyometric training.
	3.1.3.3.3		PE3.26	Summary: Types of Training	Summarise the methods of training and idenitfy the advantages and disadvantages of each.
Physical Training	3.1.3.4.1		PE3.27	Calculating Training Intensities	Define training thresholds. Calculate the aerobic/anaerobic training zone. Use one rep max to plan intensity of weight training.
Phys	3.1.3.4.2		PE3.28	Preventing Injuries	Discuss the safety principles when training. Describe how and why warm-up and cool-down is important.
	3.1.3.4.3	gining	PE3.29	Specific Training Techniques	Describe what high altitude training is and how it improves aerobic fitness. Evaluate this type of training.
	3.1.3.4.4	Optimising Training	PE3.30	Seasonal Aspects	Name the different training seasons and describe what each season entails.
	3.1.3.5.1	Optim	PE3.31	Warming Up	Describe the elements of a warm up and explain why each is important for practical performance.
	3.1.3.5.1		PE3.32	Cooling Down	Describe the elements of a cool down and explain why each is important for practical performance.
	3.1.3.5.1		PE3.33	Summary: Warm Up & Cool Down	Describe the elements of a warm up and cool down and explain why each is important for practical performance.

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Strand	Spec Code	Diagnostic	Nugget Code	Nugget Name	Nugget Summary	
	3.1.4.1.1		MF48.03	Tally Chart	This nugget has learning material and questions covering the topic of Tally Chart.	
	3.1.4.1.1	ion	MF48.04	Questionnaires	This nugget has learning material and questions covering the topic of Questionnaires: Creating.	
	3.1.4.1.1	ta Collection	MF48.05	Types of Random Sampling	This nugget has learning material and questions covering the topic of Types of Random Sampling .	
	3.1.4.1.1	Data	MF48.06	Fair Samples	This nugget has learning material and questions covering the topic of Fair Samples.	
	3.1.4.1.1			MF48.07	Grouped Tally Charts: Discrete and Continuous	This nugget has learning material and questions covering the topic of Grouped Tally Charts: Discrete and Continuous.
ta	3.1.4.1.2		MF50.01	Completing Two Way Tables	This nugget has learning material and questions covering the topic of Completing Two Way Tables.	
Use of Data	3.1.4.1.2	ā	MF50.04	Bar Charts	This nugget has learning material and questions covering the topic of Bar Charts.	
Š	3.1.4.1.2	esent Data	MF50.05	Multiple and Composite Bar Charts	This nugget has learning material and questions covering the topic of Multiple and Composite Bar Charts.	
	3.1.4.1.2	P	MF50.06	Vertical Line Graphs	This nugget has learning material and questions covering the topic of Vertical Line Graphs.	
	3.1.4.1.2		MF50.19	Scales: Continuous Data	This nugget has learning material and questions covering the topic of selecting appropriate scales for graphing continuous data.	
	3.1.4.1.3	e & Data	MF50.02	Interpreting Two Way Tables	This nugget has learning material and questions covering the topic of Interpreting Two Way Tables.	
	3.1.4.1.3	Analyse & Evaluate Da	MF50.11	Interpreting Pie Charts	This nugget has learning material and questions covering the topic of Interpreting Pie Charts.	
	31.4.1.3	,	MF50.15	Interpreting Scatter Graphs 2: Outliers	This nugget has learning material and questions covering the topic of Interpreting Scatter Graphs 2.	

	AQA				CENTURY
Strand	Spec Code	Diagnostic	Nugget Code	Nugget Name	Nugget Summary
	3.2.1.1.1	Classification of skills	PE5.01	Skill & Ability	Define a skill and ability and provide practical examples of each.
	3.2.1.1.1		PE5.02	Classification of Skills	Describe the different classifications of skills and apply practical examples of skills on to each continuum.
	3.2.1.1.3	Classif	PE5.03	Types of Goals	Describe the types of goals and apply examples of each.
Psychology	3.2.1.2.2	Goal Setting	PE5.04	SMART Targets	Explain the key principles of SMART targets applying them to examples.
	3.2.1.3.1	Basic Information Processing	PE5.05	Information Processing Model	Explain the key principles of the information processing model applying it to practical examples.
	3.2.1.4.1	uidance and Feedback	PE5.06	Types of Guidance	Describe the different types of guidance and analyse the benefits of each for different types of performers.
Sports Ps	3.2.1.4.2	Guidan	PE5.07	Types of Feedback	Describe the different types of feedback and analyse how these are beneficial for different performers.
ั้ง	3.2.1.5.1/2		PE5.08	Arousal & Inverted U Theory	Define arousal and the inverted U theory and apply how varying arousal levels can affect performance.
	3.2.1.5.4	ation	PE5.09	Arousal (Stress) Management	Describe ways to manage arousal and stress. Apply the different methods to a practical example.
	3.2.1.5.5	I Preparation	PE5.10	Aggression	Describe aggression and the types of aggression in sport. Explain the advantages and disadvantages of aggression in sport.
	3.2.1.5.6	Mental	PE5.11	Personality Types	Describe the different types of personality and analyse the effect this has on sport preference.
	3.21.5.7		PE5.12	Intrinsic & Extrinsic Motivation	Evaluate the different types of motivation providing examples.

AQA CENTURY Nugget Code Strand Spec Code Diagnostic Nugget Name **Nugget Summary** **Questions?**Email support@century.tech



