Synoptic links for 9-mark questions AQA GCSE PE 9-1

Area of the specification	Context of the question	Typical synoptic links
Aerobic and anaerobic energy	• Aerobic/submaximal performance	• Glucose + O_2 goes to CO_2 + H_2O + energy
		 Long duration, moderate intensity
	Anaerobic/maximal performance	 Glucose goes to lactic acid + energy
		 Short duration, high intensity
Diet	 Aerobic/submaximal performance 	 Increased carbohydrate consumption in the diet to provide more glucose for aerobic respiration
	 Anaerobic/maximal performance 	 Increased protein consumption in the diet to maximise anaerobic adaptation and repair tissue
Hydration	• All	Before, during and after
		Essential for cell function
		 Essential to prevent loss of concentration/mistakes
	 All but try to focus on times before, during or after performance when the techniques can be used. 	 Deep breathing exercises prior to the whistle
Mental preparation		 Use of imagery to increase confidence
		 Mental rehearsal to control arousal
		 Self-talk to block negative thoughts
Recovery from exercise	• Particularly important for anaerobic	 Thorough cool-down to remove lactic acid
		Ice bath to flush muscles
		Massage to remove toxins
Goal setting	• All	Focus on SMART.
		 Name a SMART target such as "over six weeks, increase one rep max score by 5% on every lift"
		SMART targets increase motivation levels.
Motivation	• All	 Intrinsic motivation is the most powerful and comes from the desire to participate or succeed. Extrinsic motivation such as rewards can be tried.
Principles of training	• All	 Apply the FITT principle: more, more intense,
		longer and more varied training over time.
		 Don't overtrain or injury will occur and reversibility will follow.
Arousal	• All	• Find the right arousal level for peak/optimal
		 Optimal arousal can vary depending on
		personality and/or the type of skill being performed.
		 Use mental preparation techniques (see above) to control arousal.



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Basic information processing model	• All	 Input - senses Decision-making - using memory to compare to previous experiences and deciding how to move Output - nerve impulses and muscle contractions Feedback - information on how it is going/went
Classification of skill	• All	 Basic or complex? Justify. Open or closed? Justify. Self or externally paced? Justify. Gross or fine? Justify.
Somatotype	• All	 Determine whether the activity profile is best suited to a meso, ecto or endomorph. State what the impact of not being this shape might be.
Prohibited substances and methods (PEDs)	• All	 Does the sport have a legacy of PED use? If so, which PED/method and why? Which PED/method could enhance performance in this sport? What are the potential side effects?
Effects of exercise	• All	 Write about the long-term effects of training (months and years) if your question requires you to write about training methods. Example link: One long-term effect of Fartlek training is the increased size and strength of the cardiac muscle, known as cardiac hypertrophy. This causes a greater exercising stroke volume leading to a greater delivery of oxygenated blood to the working muscle and the ability to work at higher intensities aerobically.

