

2	(a)	<p>Explain how a neural impulse is transferred from the central nervous system to skeletal muscle.</p> <ol style="list-style-type: none"> <li>1. Impulse detected at the motor neurone pool</li> <li>2. Dendrites conduct the impulse into the cell body</li> <li>3. If the impulse is large enough/depolarisation is large enough/above threshold it continues/all or none law</li> <li>4. The now concentrated/stronger impulse travels away from the cell body along the axon towards muscle fibres</li> <li>5. The impulse is protected and speeded up by the presence of the insulating myelin sheath</li> <li>6. Speed of conduction is increased further at the Nodes of Ranvier as the impulses jump across the gaps in the myelin sheath</li> <li>7. The action potential at a given point in the axon produces a diffusion of Sodium ions (<math>\text{Na}^+</math>)/Potassium ions (<math>\text{K}^+</math>)</li> <li>8. This enables further transmission of the impulse/</li> <li>9. The message travels along the axon to the synaptic knobs/axon terminals/neuromuscular junction</li> <li>10. Here acetylcholine is secreted into the synaptic cleft/synapse</li> <li>11. Acetylcholine is the neurotransmitter which allows the motor end plate to depolarise.</li> </ol>	(7)
	(b)	The body utilises three energy pathways to re-synthesise ATP.	
	(i)	<p>Name the three pathways and describe how each works.</p> <p>Max of 3 per pathway.</p> <ol style="list-style-type: none"> <li>1. ATP-PC/alactic pathway</li> <li>2. Creatine Kinase catalyses the breakdown of PC into <math>\text{P}_i</math> + C + energy</li> <li>3. The energy is used to recreate ATP from the <math>\text{P}_i</math> and the residue ADP</li> <li>4. Lactic acid pathway</li> <li>5. Glycolysis</li> <li>6. Glucose is broken down in the presence of glycolytic enzymes producing 2 x ATP &amp; 2 mmols of pyruvic acid</li> <li>7. Aerobic energy pathway</li> <li>8. Respiration</li> <li>9. The pyruvic acid is broken down to acetal coenzyme A/oxaloacetic acid/enters Krebs's cycle to produce up to 36 additional ATP's.</li> </ol>	(9)

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Authority (Great Britain), Great Britain.  
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*Mark Schemes Pack: Key Stage 2 Tests 2007* Qualifications and Curriculum Authority, Great Britain. Department for Education and Skills, 2007      *Tests* Qualifications and Curriculum Authority (Great Britain), Great Britain. Department for Education and Employment, Great Britain. Department for Education and Skills, 2007      *Grammar, Punctuation and Spelling Test - Year 4* Catherine Casey, 2015-12-03 Check your child's progress with these new format National Curriculum SATs tests These practice tests are designed to check children's level of understanding at the end of Year 4 Each pack comes with three complete practice tests and an accompanying Guidance and Mark Scheme booklet These practice tests have a similar look and feel to the new Key Stage 2 Grammar Punctuation and Spelling SATs test to help familiarise children with both the content and format of these tests The tests can be used to track progress in school but can also be used in the home The Guidance and Mark Scheme provides advice for parents and carers on how to use the tests and how to support children in preparing for them Scholastic National Curriculum Revision Year 4 is also available offering children the opportunity to check their progress across the English curriculum and to develop the skills they need for these national tests      **Grammar, Punctuation and Spelling Test - Year 6** Lesley Fletcher, Graham Fletcher, 2015-12-03 Prepare with confidence for the new format Key Stage 2 SATs tests with Scholastic National Curriculum Tests The National SATs tests changed in 2016 and Scholastic's practice tests are fully in line with the new format Grammar Punctuation and Spelling test for children in Year 6 Each pack comes with three complete practice tests with an accompanying Guidance and Mark Scheme booklet These practice tests have a similar look and feel to the new Grammar Punctuation and Spelling SATs test to help familiarise children with both the content and format of these tests The tests can be used to track progress in school but can also be used in the home The Guidance and Mark Scheme provides advice for parents and carers on how to use the tests and how to support children in preparing for them Scholastic National Curriculum Revision Year 6 is also available offering children the opportunity to check their progress across the English curriculum and to develop the skills they need for these national tests Aligned with the KS2 SATS tests in 2021/2022      **Mark Schemes Pack**, 1999

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