** A level Year 2** Eduqas Component 1

**Respiration**

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|  |  | R | A | G |
| 1 | the need for all living organisms to carry out respiration in order to provide energy in the cell |  |  |  |
| 2 | glycolysis as a source of triose phosphate, pyruvate, ATP and reduced NAD and resulting in the formation of acetyl Coenzyme A (the names of  intermediates are not required) |  |  |  |
| 3 | the Krebs cycle as a means of liberating energy from carbon-carbon bonds to produce ATP and reduced NAD with release of carbon dioxide |  |  |  |
| 4 | the role of reduced NAD and FAD as sources of electrons and protons for the electron transport system |  |  |  |
| 5 | the energy budget of the breakdown of glucose under aerobic and anaerobic conditions |  |  |  |
| 6 | how lipids and amino acids are used in respiration |  |  |  |

**SPECIFIED PRACTICAL WORK**

Investigation into factors affecting the rate of respiration in yeast