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I give many of my IB Biology resources away, for the benefit of students and teachers around the world. If you've found the materials helpful, please consider making a contribution of any amount to [this Earthwatch Expedition Fund](#).

Did I forget something? Know of a mistake? Have a suggestion? Let me know by [emailing me here](#). Cheers!

A list of the biological processes mentioned in the IB biology assessment statements:

Core

1. Emergence (of properties)
2. Differentiation
3. Resolution
4. Magnification
5. Binary fission
6. Fluidity
7. Permeability
8. Simple diffusion
9. Facilitated diffusion
10. Osmosis
11. Active transport
12. Endocytosis
13. Exocytosis
14. Endosymbiotic theory
15. Spontaneous generation
16. Mitosis
17. Cytokinesis
18. Interphase
19. Metastasis
20. Metabolism
21. Anabolism
22. Catabolism
23. Hydrogen bonding
24. Dissolving / solubility
25. Condensation
26. Hydrolysis
27. Denaturation
28. Catalysis
29. Production of lactose free milk
30. Semi-conservative replication
31. Transcription
32. Translation
33. Polymerase chain reaction
34. Cell respiration

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- a. Anaerobic
- b. Aerobic

- 35. Photosynthesis
- 36. Photolysis
- 37. Chromatography
- 38. Mutation
- 39. Sequencing
- 40. Autoradiography
- 41. Karyotyping
- 42. Meiosis
- 43. Crossing over
- 44. Independent assortment
- 45. Segregation of alleles
- 46. Fertilization
- 47. Nondisjunction
- 48. Chorionic villi sampling
- 49. Amniocentesis
- 50. Radiation
- 51. Monohybrid cross
- 52. Testcross
- 53. Electrophoresis
- 54. DNA profiling
- 55. Genetic modification (gene transfer)
- 56. Cloning
- 57. Somatic cell nuclear transfer
- 58. Ingestion
- 59. Feeding
- 60. Classification
- 61. Interpreting statistical significance
- 62. Carbon flux
- 63. Combustion
- 64. Diffusion
- 65. Peat formation
- 66. Oxidation
- 67. Reduction
- 68. Fossilization
- 69. Evolution
- 70. Selective breeding
- 71. Artificial selection
- 72. Adaptive radiation
- 73. Divergence
- 74. Speciation
- 75. Natural selection
- 76. Sexual reproduction

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- 77. Adaptation
- 78. Overproduction
- 79. Contraction
- 80. Secretion
- 81. Digestion
- 82. Absorption
- 83. Transport
- 84. Heart beat
- 85. Blood flow
- 86. Occlusion
- 87. Primary defense
- 88. Blood clotting
- 89. Phagocytosis
- 90. Ventilation
- 91. Saltatory conduction
- 92. Pumping
- 93. Depolarization
- 94. Repolarization
- 95. Propagation due to local current
- 96. Homeostasis
- 97. Menstrual cycle
- 98. Appetite control
- 99. Circadian rhythms
- 100. Development of reproductive organs
- 101. Positive feedback
- 102. Negative feedback
- 103. IVF

Additional Higher Level

- 104. Splicing
- 105. Gene expression
- 106. Methylation
- 107. Initiation
- 108. Elongation
- 109. Termination
- 110. Translocation
- 111. Protein folding
- 112. Phosphorylation
- 113. Competitive inhibition
- 114. Noncompetitive inhibition
- 115. End product inhibition
- 116. Glycolysis
- 117. Linking reaction
- 118. Kreb's cycle

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119. Decarboxylation
120. Electron transport chain
121. Chemiosmosis
122. Light dependent reaction
123. Absorption
124. Photolysis
125. ETC
126. Carboxylation
127. Transpiration
128. Gas exchange
129. Phloem transport
130. Tropism
131. Micropropagation
132. Flowering
133. Pollination
134. Fertilization
135. Seed dispersal
136. Formation of recombinants
137. Directional selection
138. Stabilizing selection
139. Disruptive selection
140. Activation of B cells by T cells
141. Antibody action
142. Allergies
143. Immunity
144. Vaccination
145. Formation of monoclonal antibodies
146. Antagonistic muscle contractions
147. Cross bridge formation
148. Sliding filament
149. Osmoregulation
150. Osmoconformation
151. Ultrafiltration
152. Selective reabsorption
153. Spermatogenesis
154. Oogenesis
155. Fertilization
156. Implantation
157. Birth

Option D

158. Malnutrition
159. Starvation
160. anorexia

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- 161. Hypertension
- 162. Diabetes
- 163. Egestion
- 164. Dehydration
- 165. Systole
- 166. Diastole
- 167. Defibrillation
- 168. Thrombosis
- 169. Bohr shift
- 170. Exercise