B6 Revision

|  |  |
| --- | --- |
| Describe how parts of bacteria cells relate to their function   * Flagellum * Cell Wall * DNA | Describe the main shapes of bacteria: |
| Why can bacteria survive in a lot of places? | What are the consequences of rapid bacterial reproduction in terms of food spoilage? |
| How do bacteria reproduce? | Describe aseptic technique |
| Label a yeast cell | Describe how yeast growth rate can be increased |
| Describe the structure of a virus | Explain how a virus reproduces |

|  |  |
| --- | --- |
| Describe how diseases can be transmitted | Describe the stages of an infectious disease |
| Explain why natural disasters cause a rapid spread of disease | State the work of the following scientists   * Pasteur * Lister * Fleming |
| Define aseptic | Define antibiotic |
| Explain how bacteria become resistant to antibiotics | How can we prevent the spread of antibiotic resistance |

|  |  |
| --- | --- |
| Describe the main stages of yoghurt making | Describe the main stages of brewing |
| Describe the role of *Lactobacillus* in yoghurt making | Balanced chemical equation for fermentation |
| Define pasteurisation | Describe the process of distillation |
|  |  |
| Describe methods of transferring energy from biomass | Burning of biofuels do not cause a net increase in greenhouse gases if: |
| Describe advantages of using biofuels | In some areas growing biofuels has resulted in a negative impact: |
| Biogas is made up of: | Uses of biogas: |
| Define gasohol | How can methane be produced on a large scale |

|  |  |
| --- | --- |
| Describe the difference between sandy soil and clay soil | Explain how particle size effects air content in soil: |
| Define loam | Define humus |
| Explain the importance of humus | Explain the role of earthworms in soil fertility |

|  |  |
| --- | --- |
| Explain the advantages of life in water: | Explain the disadvantages of life in water: |
| Describe the use of contractile vacuoles in amoeba: | What 3 factors effect photosynthesis in phytoplankton? |
| Define the term marine snow | Define the term indicator species |
| Explain the stages of eutrophication | Define bioaccumulation  Describe the effects of DDT and PCBs |

|  |  |
| --- | --- |
| Describe the role of enzymes in biological washing powders   * Amylase * Lipase * Protease | Explain how foods are sweetened using invertase |
| Why do biological washing powders work best at moderate temperatures | Why do products of biological washing powders wash easily out of clothes? |
| Describe how to immobilise an enzyme | Explain lactose intolerance |
| Explain the advantages of immobilising enzymes | How is lactose free milk made? |

|  |  |
| --- | --- |
| Define transgenic organism | Define restriction enzyme |
| Define ligase enzyme | Define plasmid |
| Describe main stages of genetic engineering | Describe how bacteria can be genetically engineered to make human insulin |
| Describe the stages of DNA fingerprinting | Describe the arguments for and against storing DNA fingerprints |