Explain antagonistic muscle action (B9)

Know that muscles work in pairs (B9)

Know the structure & function of the skeleton and joints (B9)

Name the main components of blood & describe the action of the heart as a double pump (B7)

Label the main organs of the respiratory system (B7)

Describe the structure and function of the eye P9

Basically describe the process of anaerobic respiration in plants and microorganisms B8

State the equation for anaerobic respiration B8

Describe the process of anaerobic respiration B8

State the equation for aerobic respiration B8

Describe the process of aerobic respiration B8

Explain the importance of plants B5

State the equation for photosynthesis B5

Describe the process of photosynthesis B5

Explain how nutrient deficiency can lea to plant diseases B5

State the effects of antibiotics and painkillers B12

State examples of fungal diseases B12

State examples of bacterial diseases B12

State examples of viral diseases B12

State how some pathogens are spread B12

Describe functions of flowers and seedsB2b

Describe how fertilisation occurs B2b

Label structures of a flower B2b

Describe different types of seed dispersal B2b

Explain different types of pollination B2b

Basically describe the effects of diet and exercise on mental and physical health B8

State examples of specialised cells B1

Define the process of diffusion B7

**5.1 & 5.2 The** **human** **nervous** **system**

**4.2 Respiration**

**4.1 Photosynthesis**

**3.3 Plant** **disease**

**3.2 Monoclonal** **antibodies**

**3.1 Infection** **and** **response**

**1.3 Transport** **in** **cells**

**1.2 Cell** **division**

**1.1 Cell** **structure**

D and E

F and G

3 and 2

5 and 4

A and B

7 and 6

**2.1 & 2.2 Animal** **tissues,** **organs** **and** **organ** **systems**

**2.3 Plant** **tissues,** **organs** **and** **organ** **systems**

9 and 8

**GCSE** **equivalent**

Old GCSE Grade

**1**

**1**

**1**

**2**

**2**

**3**

**3**

**3**

**4**

**4**

**5**

A\*\* and A\*

Fully describe the structure of eukaryotes and prokaryotes and explain the function of their components

Explain how DNA is arranged in chromosomes and genes

Fully describe the process of diffusion and explain how factors limit it

Fully describe the levels of organisation in living organisms using examples of animals and plants

Fully describe the structure and role of plant tissues

Fully describe the different ways in which pathogens are spread

**Fully** **describe** **the** **production** **of** **monoclonal** **antibodies**

**Fully** **describe** **the** **detection** **and** **identification** **of** **plant** **diseases**

Fully describe the process of photosynthesis

Fully describe the process of aerobic respiration

Fully describe the process of homeostasis using examples

Fully describe the structure of generalised animal and plant cells and explain the function of their components

Fully describe the process of mitosis and explain its part in the cell cycle

Fully describe the process of osmosis and explain how factors limit it

Fully describe the functions of all parts of the human digestive system

Fully describe the structure and role of plant organs

Fully describe examples of viral diseases and their effects

**Explain** **the** **uses** **of** **monoclonal** **antibodies**

Fully describe the defence responses of plants

**Explain** **the** **factors** **that** **limit** **the** **rate** **of** **photosynthesis**

Fully describe the conversion of energy in respiration (and photosynthesis)

Fully describe the structure and function of the human nervous system

Explain how animal and plant cells are specialised

Explain the potential uses of stem cells

Fully describe the process of active transport and explain how factors limit it

Fully describe the role of human digestive enzymes and bile in the digestion of food

Fully describe the structure and role of plant organ systems

Fully describe examples of bacterial diseases and their effects

Fully describe the uses of glucose from photosynthesis

Fully describe the process of anaerobic respiration

Fully describe the structure and function of the brain

Fully describe the differences between light and electron microscopes

Fully describe the functions of all parts of the human circulatory system

Fully describe examples of fungal diseases and their effects

Fully describe the process of anaerobic respiration in plants and microorganisms

Fully describe the structure and function of the eye

Explain the effects of diet and exercise on mental and physical health

Fully describe examples of protist diseases and their effects

Fully describe the breakdown and synthesis reactions in metabolism

Explain how body temperature is controlled

Fully describe the causes and effects of and treatments for cancer

Explain the roles of the first, second and third lines of defence against infection in humans

Explain the effect of lifestyle on some non-communicable diseases

Explain how vaccines work and what they are made from

Explain what conditions and infections antibiotics and painkillers treat

Explain how drugs are discovered and developed, including their testing

Describe in detail the structure of eukaryotes and prokaryotes and briefly explain the function of their components

Briefly explain how DNA is arranged in chromosomes and genes

Briefly explain the process of diffusion and describe how factors limit it

Describe in detail the levels of organisation in living organisms using examples of animals and plants

Describe in detail the structure and role of plant tissues

Describe in detail the different ways in which pathogens are spread

**Describe** **in** **detail** **the** **production** **of** **monoclonal** **antibodies**

**Describe** **in** **detail** **the** **detection** **and** **identification** **of** **plant** **diseases**

Describe in detail the process of photosynthesis

Describe in detail the process of aerobic respiration

Describe in detail the process of homeostasis using examples

Describe in detail the structure of animal and plant cells and briefly explain the function of their components

Briefly explain the process of mitosis and its part in the cell cycle

Briefly explain the process of osmosis and describe how factors limit it

Describe in detail the functions of all parts of the human digestive system

Describe in detail the structure and role of plant organs

Describe in detail examples of viral diseases and their effects

**Briefly** **explain** **the** **use** **of** **monoclonal** **antibodies**

Describe in detail the defence responses of plants

**Briefly** **explain** **the** **factors** **that** **limit** **the** **rate** **of** **photosynthesis**

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Describe in detail the structure and function of the human nervous system

Briefly explain how animal and plant cells are specialised

Briefly explain the potential uses of stem cells

Briefly explain the process of active transport and describe how factors limit it

Describe in detail the role of human digestive enzymes and bile in the digestion of food

Describe in detail the structure and role of plant organ systems

Describe in detail examples of bacterial diseases and their effects

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Describe in detail the process of anaerobic respiration

Describe in detail the structure and function of the brain

Describe in detail the differences between light and electron microscopes

Describe in detail the functions of all parts of the human circulatory system

Describe in detail examples of fungal diseases and their effects

Describe in detail the process of anaerobic respiration in plants and microorganisms

Describe in detail the structure and function of the eye

Briefly explain the effects of diet and exercise on mental and physical health

Describe in detail examples of protist diseases and their effects

Describe in detail the breakdown and synthesis reactions in metabolism

Briefly explain how body temperature is controlled

Describe the causes and effects of and treatments for cancer

Briefly explain the first, second and third lines of defence in humans

Briefly explain the effect of lifestyle on some non-communicable diseases

Briefly explain how vaccines work and what they are made from

Briefly explain what conditions and infections antibiotics and painkillers treat

Briefly explain how drugs are discovered and developed, including their testing

C

Describe the structure of eukaryotes and prokaryotes and identify their components

Describe how DNA is arranged in chromosomes and genes and the structure of DNA

Describe the process of diffusion and describe how factors limit it

Describe the levels of organisation in living organisms using examples of animals and plants

Describe the structure and role of plant tissues

Describe the different ways in which pathogens are spread B12

**Describe** **the** **production** **of** **monoclonal** **antibodies**

**Describe** **the** **detection** **and** **identification** **of** **plant** **diseases**

Describe the process of homeostasis using examples

Describe the structure of generalised plant and animal cells and identify their components B1

Describe the process of mitosis and its part in the cell cycle

Describe the process of osmosis and describe how factors limit it

Describe the functions of all parts of the human digestive system

Describe the structure and role of plant organs

Describe examples of viral diseases and their effects

**Describe** **the** **use** **of** **monoclonal** **antibodies**

Describe the defence responses of plants

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Describe the conversion of energy in respiration (and photosynthesis)

Describe the structure and function of the human nervous system

Describe the adaptations of specialised animal and plant cells B1

Describe the potential uses of stem cells

Describe the process of active transport and describe how factors limit it

Describe the role of human digestive enzymes

Describe the structure and role of plant organ systems

Describe examples of bacterial diseases and their effects

Describe the uses of glucose from photosynthesis

Describe the structure and function of the brain

Describe the differences between light and electron microscopes

Describe the functions of all parts of the human circulatory system

Describe examples of fungal diseases and their effects

Describe the process of anaerobic respiration in plants and microorganisms B8

Describe the effects of diet and exercise on mental and physical health

Describe examples of protist diseases and their effects

Describe the breakdown and synthesis reactions in metabolism

Describe how body temperature is controlled

Describe the causes and effects of and treatments for cancer

Describe the first, second and third lines of defence in humans

Describe the effect of lifestyle on some non-communicable diseases

Describe how vaccines work and what they are made from

Describe what conditions and infections antibiotics and painkillers treat

Describe how drugs are discovered and developed, including their testing

Basically describe the structure of eukaryotes and prokaryotes and state their components

Basically describe the arrangement of DNA in chromosomes and genes and the structure of DNA as a double helix

Basically describe the process of diffusion (B7)

Basically describe the levels of organisation in living organisms B1

Briefly describe the structure and role of plant tissues

Basically describe the different ways in which pathogens are spread B12

**Basically** **describe** **the** **production** **of** **monoclonal** **antibodies**

**Basically** **describe** **the** **detection** **and** **identification** **of** **plant** **diseases**

Basically describe the process of photosynthesis B5

Basically describe the process of aerobic respiration B8

Basically describe the process of homeostasis using examples

Basically describe the structure of plant and animal cells and state their components B1

Basically describe the process of mitosis

Basically describe the process of osmosis

Basically describe the functions of all parts of the human digestive system

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Basically describe examples of viral diseases and their effects

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**Basically** **describe** **the** **factors** **that** **limit** **the** **rate** **of** **photosynthesis**

Basically describe the conversion of energy in respiration (and photosynthesis)

Basically describe the structure and function of the human nervous system

Basically describe the adaptations of specialised animal and plant cells B1

Basically describe the potential uses of stem cells

Basically describe the process of active transport

Basically describe the role of human digestive enzymes B6

Briefly describe the structure and role of plant organ systems B5

Basically describe examples of bacterial diseases and their effects

Basically describe the uses of glucose from photosynthesis

Basically describe the process of anaerobic respiration B8

Basically describe the structure and function of the brain

Basically describe the differences between light and electron microscopes

Basically describe the functions of all parts of the human circulatory system

Basically describe examples of fungal diseases and their effects

Basically describe the structure and function of the eye P9

Basically describe examples of protist diseases and their effects

Basically describe the breakdown and synthesis reactions in metabolism

Basically describe how body temperature is controlled

Basically describe the causes and effects of and treatments for cancer

Basically describe the first, second and third lines of defence in humans

Basically describe the effect of lifestyle on some non-communicable diseases

Basically describe how vaccines work and what they are made from B12

Basically describe what conditions and infections antibiotics and painkillers treat

Basically describe how drugs are discovered and developed, including their testing

1

State the difference between eukaryotes and prokaryotes

State that the structure of DNA is a double helix

State examples of tissues, organs and organ systems in animals and plants B1

State that roots, shoots and leaves of plants are made from tissues

The production of monoclonal antibodies – Not accessible at this level

Detection of plant diseases – Not accessible at this level

State examples of homeostasis

Identify the basic structure of generalised plant and animal cells B1

State that mitosis produces identical body cells

The process of osmosis – Not accessible at this level

State that the human digestive system breaks down food and absorbs it into the blood B6

State that roots, shoots and leaves are plant organs

The use of monoclonal antibodies – Not accessible at this level

State how plants respond to disease

Factors that limit the rate of photosynthesis – Not accessible at this level

The conversion of energy in respiration – Not accessible at this level

State how the human nervous system functions

Uses of stem cells – Not accessible at this level

The process of active transport – Not accessible at this level

State that human digestive enzymes break down food B6

State that plants have a circulatory system

State the uses of glucose from photosynthesis

Identify different regions of the brain

Label a diagram of a light microscope

State that the human circulatory system pumps blood around the body B7

State the equation for anaerobic respiration in plants and microorganisms B8

Identify different parts of the eye P9

State that diet and exercise improve mental and physical health B8

State examples of protist diseases

The breakdown and synthesis reactions in metabolism – Not accessible at this level

State what happens when you become too hot or cold

State examples of cancer and some of its causes

State how the human defence systems prevents some diseases

State that obesity, excessive smoking and alcohol intake can cause some

non-communicable diseases B11

State the importance of up to date vaccinations

State that drug discovery and development is long and expensive

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Only whole outcomes in this document which are higher tier have been **emboldened**.

That is, there are higher tier parts to many of these outcomes. Refer to the specification for full details.

**7.5 Food** **production**

**7.4 Trophic** **levels** **in** **an** **ecosystem**

**7.2 Organisation** **of** **an** **ecosystem**

**6.2 Variation**

**6.1 Reproduction**

**5.4 Plant** **hormones**

Describe flowers, fertilisation, pollination & seed dispersal (B2b)

Basically describe male & female reproductive systems, sexual intercourse, fertilisation, menstrual cycle & infertility treatment (B2a)

Basically describe the effects of modern food production techniques on the environment (B3)

Explain bioaccumulation in food chains and the effects of it (B3)

Draw a simple food chain (B3)

Know that quadrats are used to sample (B3)

Draw a simple pyramid of number (B3)

Basically describe the process of global warming and describe its consequences (B3)

State how land is used (B3)

State the consequences of deforestation (B3)

Basically describe interdependence in an ecosystem and predator-prey cycling (B3)

Basically describe the process of classification, including Linnaeus and including the five kingdom model (B4)

State that the theory of evolution describes how all life has evolved from simple organisms (B10)

State the causes and types of variation (B10)

Describe the structure of DNA, genes, chromosomes and the genome (B10)

Know where genes are found (B10)

D 3 and and

E 2

5 and 4

7 and 6

A and B

9 and 8

**GCSE** **equivalent**

Old GCSE Grade

**5**

**5**

**6**

**6**

**6**

**6**

**7**

**7**

**7**

**7**

**7**

**5.3 Hormonal** **coordination** **in** **humans**

**6.3 The** **development** **of** **understanding** **of** **genetics** **and** **evolution**

**6.4 Classification** **of** **living** **organisms**

**7.1 Adaptations,** **interdependence** **and** **competition**

**7.3 Biodiversity** **and** **the** **effect** **of** **human** **interaction** **on** **ecosystems**

A\*\* and A\*

Fully describe the structure and function of the human endocrine system

Explain how hormones control and coordinate the growth of plants

Fully describe the advantages and disadvantages of sexual and asexual reproduction

Fully describe the causes and types of variation

Fully describe the work of Darwin and his theory of evolution

Fully describe the process of classification, starting with Linnaeus and including the five kingdom model and the three domain model developed by Woese

Fully describe animal and plant competition for resources

Fully describe the levels of organisation in an ecosystem including how they are studied (sampled)

Fully describe the importance of maintaining biodiversity using examples of biodiverse and non-biodiverse ecosystems

Fully describe how pyramids of biomass are drawn and what they show

Fully describe factors affecting food security

Explain how blood glucose is regulated and the causes and effects of diabetes

**Explain** **how** **and** **why** **plant** **hormones** **are** **used**

Fully describe the process of meiosis

Fully describe the process of selective breeding

Fully describe the work of Lamarck and his inheritance of acquired characteristics

Fully describe interdependence in an ecosystem and predator-prey cycling

Fully describe the role of producers, consumers and decomposers

Explain how waste is managed including water, chemical and air pollution

Fully describe how biomass is transferred between trophic levels

Fully describe farming techniques including intensive and organic farming

Explain how water and nitrogen balance in the body is maintained

Fully describe the structure of DNA, genes, chromosomes and the genome

**Fully** **describe** **the** **process** **of** **genetic** **engineering**

Fully describe the work of Wallace and his role in speciation

Fully describe the abiotic factors that affect the distribution of organisms

Explain how water and carbon are cycled

Fully describe the different ways in which land is used

Fully describe how sustainable fisheries are increasing fish populations

Explain how hormones are used in human reproduction

**Fully** **describe** **the** **process** **of** **protein** **synthesis**

Fully describe the process of cloning animals, plants and microorganisms

Fully describe the work of Mendel and his role in the understanding of genetics

Fully describe the biotic factors that affect the distribution of organisms

Fully describe the factors that e\_ect decomposition

Fully describe the consequences of deforestation

Fully describe the role of biotechnology to develop and make products

Explain how different methods of contraception work

Fully describe the process of genetic inheritance including genetic disorders and their effects

Fully describe the evidence for evolution

Fully describe adaptations of animals and plants

**Fully** **describe** **the** **impact** **of** **environmental** **change** **on** **the** **distribution** **of** **organisms**

Fully describe the process of global warming and describe its consequences

**Explain** **how** **hormones** **are** **used** **to** **treat** **fertility**

Explain how sex is determined

Explain why some species have become extinct including examples caused by humans

**Fully** **describe** **examples** **of** **negative** **feedback**

Describe in detail the structure and function of the human endocrine system

Briefly explain how hormones control and coordinate the growth of plants

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Briefly explain the reasons why some species have become extinct including examples caused by humans

**Describe** **in** **detail** **examples** **of** **negative** **feedback**

C

Describe the structure and function of the human endocrine system

Describe how hormones control and coordinate the growth of plants

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Describe the causes and types of variation (B10)

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Describe how sex is determined

Describe the reasons why some species have become extinct including examples caused by humans

**Describe** **examples** **of** **negative** **feedback**

Basically describe the structure and function of the human endocrine system

Basically describe how hormones control and coordinate the growth of plants

Basically describe the advantages and disadvantages of sexual and asexual reproduction

Basically describe the causes and types of variation (B10)

Basically describe the work of Darwin and his theory of evolution (B10)

Basically describe the process of classification, starting with Linnaeus and including the five kingdom model and the three domain model developed by Woese

Basically describe animal and plant competition for resources (B3)

Basically describe the levels of organisation in an ecosystem including how they are studied (sampled)

Fully describe the importance of maintaining biodiversity using examples of biodiverse and non-biodiverse ecosystems

Fully describe how pyramids of biomass are drawn and what they show

Basically describe factors affecting food security

Basically describe how blood glucose is regulated and the causes and effects of diabetes

**Basically** **describe** **how** **plant** **hormones** **are** **used**

Basically describe the process of meiosis

Basically describe the process of selective breeding (B10)

Basically describe the work of Lamarck and his inheritance of acquired characteristics

Basically describe the role of producers, consumers and decomposers (B3)

Basically describe how waste is managed including water, chemical and air pollution

Basically describe how biomass is transferred between trophic levels

Basically describe farming techniques including intensive and organic farming

Basically describe how water and nitrogen balance in the body is maintained

Basically describe the structure of DNA, genes, chromosomes and the genome (B10)

**Basically** **describe** **the** **process** **of** **genetic** **engineering**

Basically describe the work of Wallace and his role in speciation

Basically describe the abiotic factors that affect the distribution of organisms

Basically describe how water and carbon are cycled (C11)

Basically describe the different ways in which land is used

Basically describe how sustainable fisheries are increasing fish populations

Basically describe how hormones are used in human reproduction

**Basically** **describe** **the** **process** **of** **protein** **synthesis**

Basically describe the process of cloning animals, plants and microorganisms

Basically describe the work of Mendel and his role in the understanding of genetics

Basically describe the biotic factors that affect the distribution of organisms

Basically describe the factors that affect decomposition

Basically describe the consequences of deforestation (B3)

Fully describe the role of biotechnology to develop and make products

Basically describe how different methods of contraception work

Basically describe the process of genetic inheritance including genetic disorders and their effects

Basically describe the evidence for evolution

Basically describe adaptations of animals and plants (B3)

**Basically** **describe** **the** **impact** **of** **environmental** **change** **on** **the** **distribution** **of** **organisms**

**Basically** **describe** **how** **hormones** **are** **used** **to** **treat** **fertility**

Basically describe how sex is determined

Basically describe the reasons why some species have become extinct including examples caused by humans (B10)

**Basically** **describe** **examples** **of** **negative** **feedback**

F

and 1 G

The human endocrine system – Not accessible at this level

State that hormones control and coordinate the growth of plants

State some advantages and disadvantages of sexual and asexual reproduction

State that classification involves putting organisms into groups (B4)

State that animals and plants compete for resources (B3)

State how ecosystems are investigated (sampled)

State ecosystems which are biodiverse and non-biodiverse

Draw a simple pyramid of biomass State what factors reduce food security

State what happens when your blood sugar is low

How plant hormones are used – Not accessible at this level

State that meiosis produces identical sex cells

State that dogs and farm animals have been bred by selective breeding (B10)

The work of Lamarck – Not accessible at this level

State that all organisms in an ecosystem depend upon each other (B3)

State the function of producers, consumers and decomposers (B3)

State examples of water, chemical and air pollution (B3)

How biomass is transferred between trophic levels – Not accessible at this level

State how intensive and organic farming are different

State what happens when you consume too much or too little water

State that the structure of DNA is a double helix (B10)

Genetic engineering – Not accessible at this level

State that speciation is the formation of new species

Abiotic factors that affect the distribution of organisms – Not accessible at this level

How water and carbon are cycled – Not accessible at this level (C11)

State what sustainable fisheries are

State that hormones are used in human reproduction

Protein synthesis – Not accessible at this level

Cloning – Not accessible at this level

The work of Mendel – Not accessible at this level

Biotic factors that affect the distribution of organisms – Not accessible at this level

Factors that affect decomposition – Not accessible at this level

The role of biotechnology – Not accessible at this level

Identify different methods of contraception

State symptoms of genetic disorders

State examples which provide evidence for evolution

Basically describe adaptations of one animal and one plant (B3)

Impact of environmental change on the distribution of organisms – Not accessible at this level

Global warming and its consequences – Not accessible at this level

How hormones are used to treat infertility – Not accessible at this level

How sex is determined – Not accessible at this level

State examples of species that are now extinct (B10)

Negative feedback – Not accessible at this level

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