







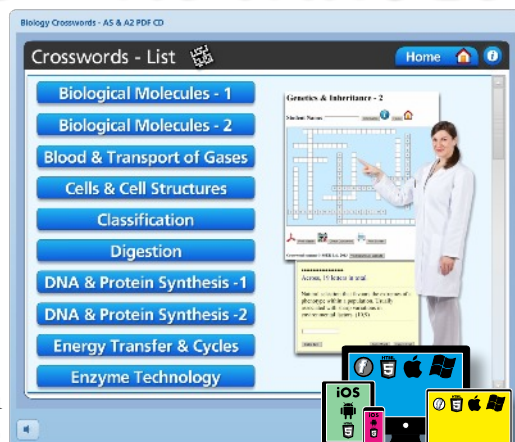
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School Software & Educational Resources

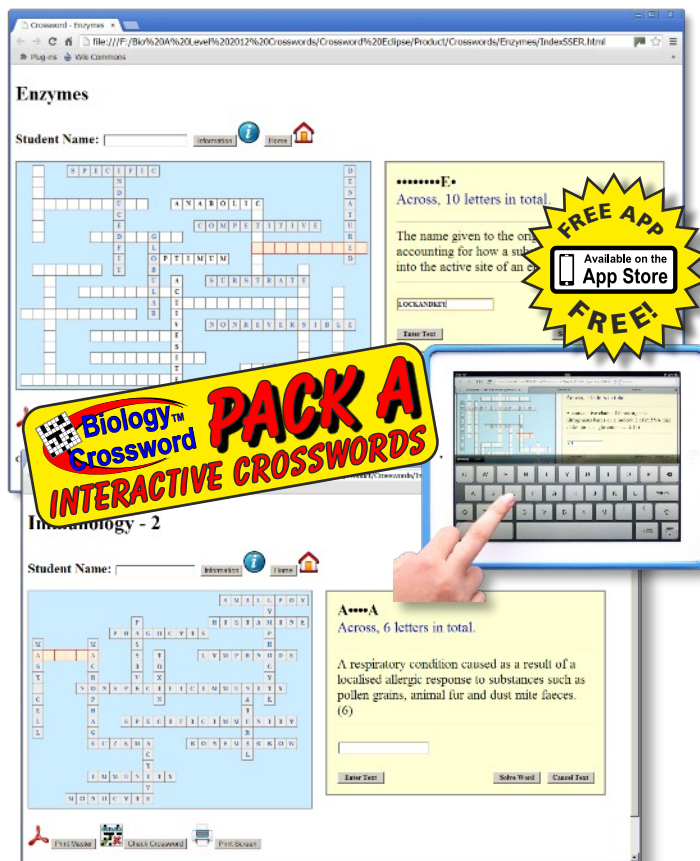
**FOR STUDENTS
AGED 16-19**

BIOLOGY CROSSWORDS - ADVANCED

- DETAILED TOPIC COVERAGE (41 CROSSWORDS)
- AVAILABLE ONLINE (INTERACTIVE) OR PRINTED
- DIRECTLY TARGETS KEY TERMS & DEFINITIONS
- SUITABLE FOR MOST SYSTEMS      
- RUNS FULL SCREEN - FREE APP FOR iOS
- SET OF ANSWER SHEETS (PDF) ALSO PROVIDED



'Biology Crosswords - Advanced' engages students (16-19) in an enjoyable way to study key biological vocabulary. Students rapidly become more familiar with pertinent terminology/definitions and gain in confidence and knowledge. The crosswords are suitable for homework or class work and are ideal for end-of-topic assessments. They are also invaluable test-tools for students to use throughout any revision program. The 'clues' offer detailed, yet succinct, definitions and descriptions of the terms. The crosswords are ideally suited for use on an interactive whiteboard or deployment on your school's network or VLE. **Pack A** allows the user to focus on just one term/definition at a time - this facilitates learning more than a traditional crossword where all the clues are visible at one time. You can view, complete, check and print Pack A crosswords from any modern Web Browser or an iPad (using the free app). **Pack B** provides high resolution print masters in both pdf and editable docx formats - you can personalise the clues. The 'Super Bundle' provides Packs A & B in an inclusive integrated package.



Biology Crosswords - AS & A2 PDF CD

Crosswords - List

Home

Crossword Choices:

'Roll over' the button to preview a crossword or 'Click' the button to access the interactive crossword.

Energy Transfer & Cycles

Enzyme Technology

Enzymes

The Mammalian Eye

Gas Exchange - Human

Animals & Plants

Genetics & Inheritance - 1

Genetics & Inheritance - 2

Heart Disease - 1

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App Store

FREE!

Information Button:

Clear instructions are at hand at all times.

List Scroller:

Use the scroller to view the whole crossword list.

Sound Button:

Many actions have associated sounds - volume can be controlled.

INTERACTIVE
ALL BROWSERS

ANSWERS INCLUDED!

Information Button:

Clear instructions are at hand at all times.

Blue Text:

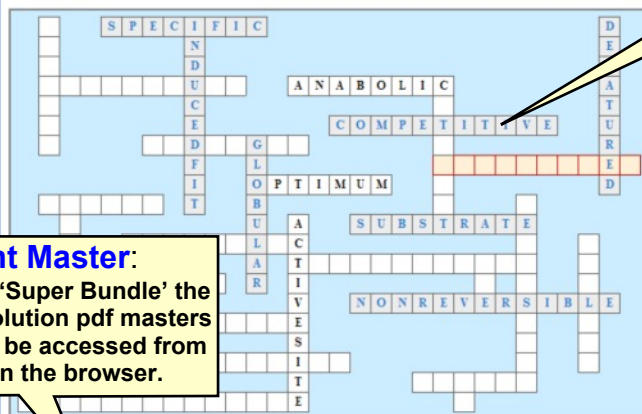
If the 'Solve Word' button is used the text is shown and prints in blue.

Enzymes

Student Name:

Information

Home



.....E.

Across, 10 letters in total.

The name given to the original model accounting for how a substrate molecule fits into the active site of an enzyme. (4,3,3)

Enter Text

Solve Word

Cancel Text

Print Master:

With the 'Super Bundle' the high resolution pdf masters can also be accessed from within the browser.

Print Button:

The crossword can be printed at any stage - includes student's name.

Check Button:

Check the crossword entries made to date.

Clue Box:

One detailed clue is displayed at a time. The clue box offers useful help and support.

Crosswords for Biology 16-19
Biological Molecules - 1

Across

- Type of chromatography in which the paper (3,3)
- Qualitative analytical procedure used to detect the presence of a substance (6)
- A chemical which can be used to detect the presence of a substance (6)
- Generic name for any member of a group of organic molecules that contain a specific ratio (1,2)
- A solution which can be used to detect the presence of a substance (6)
- Generic name for any member of a group of organic molecules that contain a specific ratio (1,2)
- Made from the condensation of fatty acids and glycerol (6)

Down

- Organic molecules (e.g. fatty acids) which do not contain any double bonds (6)
- One of the two types of molecules comprising a triglyceride (5,4)
- Generic name for any member of a broad group of organic molecules that contain a specific ratio (1,2)
- Monomer unit which combines repeatedly to form a polypeptide (5,4)
- The general term for the monomers which are the basic building blocks of carbohydrates (10,6)
- A chemical which can be used to detect the presence of peptide bonds in a protein (6,7)
- The alcohol used to make a triglyceride (8)
- Level line at the bottom of chromatography paper where the separation mixture is placed (6)
- Organic molecules (e.g. fatty acids) which contain one or more double bonds in their hydrocarbon chains (10,6)
- Generic term for molecules made up of many identical building blocks (7)
- Carbon-containing molecules found in living organisms (7)
- An identifying value in chromatography calculated by dividing the distance a substance moves from the origin by the distance the solvent front moves (2,5)

Crosswords for Biology 16-19
DNA & Protein Synthesis - 1

Across

- The monosaccharide which is the basic building block of DNA (10)
- The length of DNA (10)
- A generic term for any member of a group of organic molecules that contain a specific ratio (1,2)
- Deoxyribonucleic acid (10)
- A phosphate group (10)
- A generic term for any member of a group of organic molecules that contain a specific ratio (1,2)
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Down

- The monosaccharide which is the basic building block of DNA (10)
- The length of DNA (10)
- A generic term for any member of a group of organic molecules that contain a specific ratio (1,2)
- Deoxyribonucleic acid (10)
- A phosphate group (10)
- A generic term for any member of a group of organic molecules that contain a specific ratio (1,2)
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ANSWERS INCLUDED

41 QUALITY HANDOUTS CLEARLY AND CONCISELY EXPLORE EACH TOPIC REQUIRED TO IMPROVE STUDENTS' ACHIEVEMENT - SUITABLE FOR CLASSWORK, HOMEWORK OR REVISION PACKS.

Crosswords for Biology 16-19
Gene Technology

Across

- The term applied to a gene that is used to discover whether a section of DNA has been effected (6)
- Produced by the pituitary gland, this polypeptide affects a child's physical development - it can (6)
- The sequence of bases, identified by a restriction endonuclease, which locates the exact point of (6)
- A gene carrier that delivers the desired gene into the target organism (6)
- The term used to describe a single strand of DNA that has been produced from messenger RNA (6)
- An enzyme used to join pieces of DNA together. In genetic engineering it is used to join (6)
- A tool comprised of nucleotides with a unique base sequence which hybridises with specific (6)
- A hormone, produced by the islets of Langerhans in the pancreas, which reduces the blood (6)
- A sequence of unpaired bases at the ends of a length of DNA that has been cut using (6)
- These ions are used, together with 'temperature shock', to make bacterial cell walls more (6)
- A circular strand of DNA found in bacteria which often carry genes that code for antibiotic (6)
- A unicellular fungus which is often used to make a range of human proteins (5)
- A term for an organism that contains DNA that has been transferred into it from another (6)
- This process occurs at the same time as (or just after) transcription and removes the introns (6)

Down

- Agricultural crops can be genetically modified to make them resistant to this generic chemical (6)
- This enzyme is one of a group that cut molecules of DNA at specific base sequences (11,12)
- An enzyme which synthesises a molecule of cDNA from a molecule of mRNA (7,13)
- This material accumulates in the lungs, pancreatic ducts and in the sperm ducts (males only) (6)
- An inherited lung disease, caused by a mutant recessive allele, that affects the plasma membrane (6)
- The total genetic material found in the nucleus of one cell of an organism (6)
- A term used to describe DNA made up from the DNA of two different organisms (11)
- A medical procedure in which a person's unhealthy inherited genes are replaced by healthy ones (6)

Crosswords for Biology 16-19
How Science Works - 2

Across

- Product of the reaction between pyruvate and coenzyme A (14,1)
- Type of chemical reaction in which ATP is converted to ADP (10)
- The system of molecules situated on the internal membrane of the mitochondria (8,9,5)
- Organic base found in ATP (7)
- None used to reduce NADP (8)
- The first stage of respiration (10)
- Free carbon is used to form a molecule of ATP (8)
- Product of the reaction between acetyl coenzyme A and coenzyme A (10)
- Respiration in the absence of oxygen (8)
- An index value which gives an idea of the type of respiratory substrate (11,8)

Down

- The net number of ATP molecules produced from one molecule of glucose by aerobic respiration (8,5)
- The location in a cell where anaerobic respiration occurs (9)
- Type of enzyme responsible for removing carbon dioxide from a compound (13)
- Type of enzyme that removes hydrogen atoms from compounds (13)
- Series of reactions found only in aerobic respiration which starts with pyruvate (5,5)
- Organic base found in ATP (7)
- Addition of a phosphate group to a compound (15)
- The net number of ATP molecules produced from one molecule of glucose by aerobic respiration (8,5)
- NAD is one of these in its role as a carrier molecule (8)
- Glucose is split into two of these molecules in the first stage of respiration (8)

41 Crossword Handouts
High Res Adobe pdf

Super Bundle Option:
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Heart, Circulation & Heart Disease - 1

Student Name: _____

Down, 6 letters in total.

The name given to one of the upper chambers of the heart which receive blood returning from the left side, the lungs and on the right side of the body. (6)

Crosswords for Biology 16-19
Heart, Circulation & Heart Disease - 2

Crossword List

- Biological Molecules - 1
- Biological Molecules - 2
- Blood & Transport of Gases
- Cells & Cell Structures
- Classification
- Digestion
- DNA & Protein Synthesis - 1
- DNA & Protein Synthesis - 2
- Energy Transfer & Cycles
- Enzyme Technology
- Enzymes
- The Mammalian Eye
- Gas Exchange Human
- Gas Exchange Fish, Insects & Plants
- Gene Technology
- Genetics & Inheritance - 1
- Genetics & Inheritance - 2
- Heart, Circulation & Heart Disease - 1
- Heart, Circulation & Heart Disease - 2
- Homeostasis
- How Science Works - 1
- How Science Works - 2
- How Science Works - 3
- Immunology - 1
- Immunology - 2
- Immunology - 3
- Kidney Structure and Function - 1
- Kidney Structure and Function - 2
- Mammalian Reproduction
- Meiosis and Gametes
- Microbes and Disease
- Mitosis & The Cell Cycle
- Muscles
- Nervous Co-ordination - 1
- Nervous Co-ordination - 2
- Photosynthesis
- Plasma Membranes & Cell Transport - 1
- Plasma Membranes & Cell Transport - 2
- Respiration
- Sampling Techniques & Diversity
- Transport In Plants

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