



BRICKWORK LEVEL

2

**DIPLOMA
PUZZLE
BOOK**

SELECT*ahead*

Selectahead Brickwork Level Two Diploma Puzzle Book Extract

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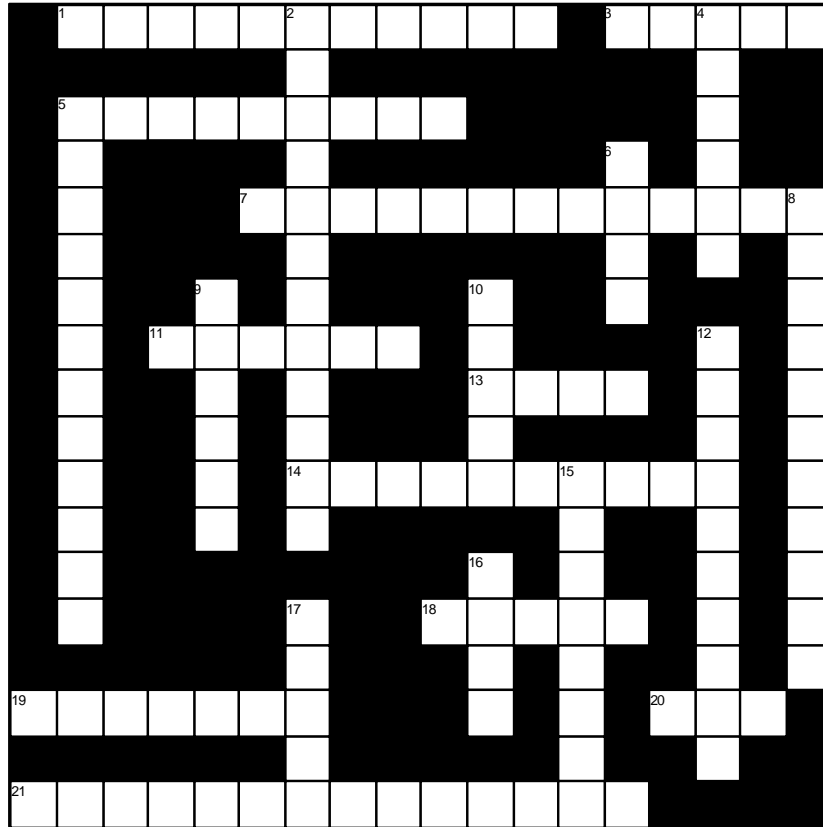
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This crossword is about Health and Safety but can you solve the clues?



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Across		Down	
1	Very common form of equipment used for moving material on site	2	Applied to hands prior to starting a job for protection
3	These provide information on site	4	Worn to protect hands
5	Used to move bagged materials	5	When working near items that are stacked this should be worn
7	Heavy items should be placed on these when delivered, making them easy to be moved again (2 words)	6	Part of your body that should be kept straight when lifting
11	Long term exposure to asbestos can cause this	8	PPE that prevents injury if items are dropped
13	All employers must provide a working environment which is this	9	The ability of a substance to cause harm, illness or damage to health is called this
14	You should always seek this if an object is too heavy	10	An assessment should identify these in any task
18	The skull and crossbones on a label means that a substance is this	12	If tools/equipment are not safe this person should be told on site
19	You should never work under the influence of this	15	What is an unexpected and unplanned event
20	Used to move bricks especially whilst on scaffolding	16	This topic should be covered as part of a risk assessment for manual handling
21	Type of jacket that makes you seen	17	This from heights causes many fatalities every year

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All the words are connected with Different of Floors. Solve the clue first then find the words in the word search grid. The words have been printed across (Backwards or Forwards), or up and down, or diagonally, but always in a straight line. Can you find them?

Z R R Q K Z K D E P M A T J O
 D N U O R G W O L L O H J V M
 R E A D Y M I X Z D V L E E R
 B L I N D I N G E H R R S R X
 S M R X Q N L S T E S F U B D
 L C L D F H I V R I D M B I I
 E L O T J N B O T T E I S F L
 E D Y M A O C E T W R N T S O
 P T E V P D I S V L U S R S S
 E R L E R A O S M Q C U U A T
 R A G A R R C T T T M L C L H
 G L H R F C M T D S L A T G L
 T P W Z W M S M I Z Z T U Q N
 G N I T A O L F W N K E R G T
 Q W L L T C M M B P G D E K F

Hidden Words Clues

1	Type of floor	7	Finish that is produced by raising and lowering a beam to compact the surface of concrete	13	A number of these support the floor and the ends are treated with preservative
2	Used to provide a solid base	8	Final layer applied to solid floors	14	Type of wall that carry's the wall plate
3	Spread to provide an even base	9	Term used for concrete that has hardened	15	Type of insulation material in rolls/quilts
4	A wacker is used to do this	10	Concrete is covered with hessian to protect it from this	16	Coating to steel to prevent rusting
5	Building Regs require ground floors to be this to prevent heat loss	11	Concrete mixed off-site	17	Type of floor structure that will prevent sound being transmitted
6	Concrete placed between the ground floor walls is known as this	12	Floor constructed of timber	18	All elements of a building below ground level are called this

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This word search is all about the tools and equipment used in Setting-Out. The words have been printed across (backwards or forwards), or up and down, or diagonally, but always in a straight line. Can you find them?

O E R A U Q S S R E D L I U B
P S T R A I G H T E D G E L L
T T R E T B L M S H K Y K E D
I O X P M K L K G G P R V F R
C R P A K M C R P R E E H L A
A A M T V X J W R T L P A T O
L N N G I D J N P T W S L H B
S G G N N C X R I H E E F E E
Q I Q I B K A R L R V W T O L
U N G R Q Q I L L E H V Q D I
A G G U P P D E L H W R R O F
R L C S S M V E G E N G T L O
E I Q A Y E N L T W V D K I R
D N P E L I L D K R H E T T P
C E W M L G K Q J P H N L E M

Hidden Words

Measuring Tape
Spirit Level
Straightedge
Optical Level
Optical Square
Theodolite
Laser Level
Builders Square
Profile Board
Ranging Line
Pegs
Line Level

Listed below are eight questions about Setting-Out. Each question has three answers but can you select the correct answer?

Questions		Answer A	Answer B	Answer C
1	An angle that is greater than 90° but no more than 180° is called this	Obtuse Angle	Reflex Angle	Acute Angle
2	Three quarters of a circle contains how many degrees?	90°	180°	270°
3	Site plans are normally drawn to which scale?	1:1	1:200	1:2500
4	On a scale of 1:20 what does 10mm represent?	20mm	200mm	2000mm
5	On a drawing thin chain lines represent	Main outlines	Dimensions	Centre line
6	Drawings are drawn to	BS5750	BS1192	OSM2001
7	Location plans normally show	Size of Rooms	Road and Drainage Routes	Window and Door Sizes
8	According to Building Regulations what should be removed before Setting-Out commences?	Trees	Top Soil	Wildlife

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Detailed below are the National Codes for Buried Services. Can you match the correct colour for each of the services?

Services		Colour Codes
1	Electricity	
2	Electricity (High Voltage)	
3	Street Lighting (England & Wales)	
4	Street Lighting (Scotland Only)	
5	Water	
6	Gas	
7	Telecommunications	
8	Cable Television	

Colour Choices (Not all the colours are used)

Colours	
A	Brown
B	Purple
C	Yellow
D	Grey
E	Black
F	Blue
G	Red
H	Green
I	Pink
J	Orange
K	White

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Missing Words Freestanding Walls

The text below describes the procedure for building a freestanding wall. Some of the words have been replaced with blanks. Can you find the correct word for each gap from the Table A below?

When building a freestanding wall, design consideration needs to be given to the of nature that the wall will need to withstand. A freestanding brick wall is far more to wind and rain than any external wall of a building.

To give the necessary protection detailing is critically important to prevent the deterioration by the weather of the brickwork and the ability of the wall to resist storm force

The foundations should be adequate for the of the wall and the nature of the ground where the wall is being constructed. The wall should incorporate a at the base which will often consist of two courses of engineering bricks. These bricks are very and with a high load-bearing capacity making them ideal for retaining walls and damp proof courses. A flexible sheet damp proof course is not used as this could impact upon the of the wall overtime.

The bricks are laid in courses in a bond that will provide the desired strength and appearance that is required. Bricks are placed on a bed of mortar, with the wall being checked for plumb, level and gauge during construction. The horizontal joints are known as joints and the vertical joints known as

The ends and corners are typically built first with the ends allowing for further courses to be laid against string line. This approach allows for bricks to be laid direct against a string line which is moved up to the next course when required without having to continually check with a

All joints are pointed and this ensures that both the bed joints and perpends are properly filled with mortar. There are many different pointing styles but both Weatherstruck and provide resistance to rain penetration.

Finally, a or is added. These have two main functions, providing protection as well as their value. The protection provided is against vertical water penetration and by reducing the amount of rain in contact with the brick face.

Table A Missing Words			
winds	load	exposed	damp proof course
hard	forces	dense	stability
Racked Back	bed	perpends	spirit level
Bucket Handle	coping stone	capping brick	aesthetic
Tip: Cross the word out as you use them - All words are used.			