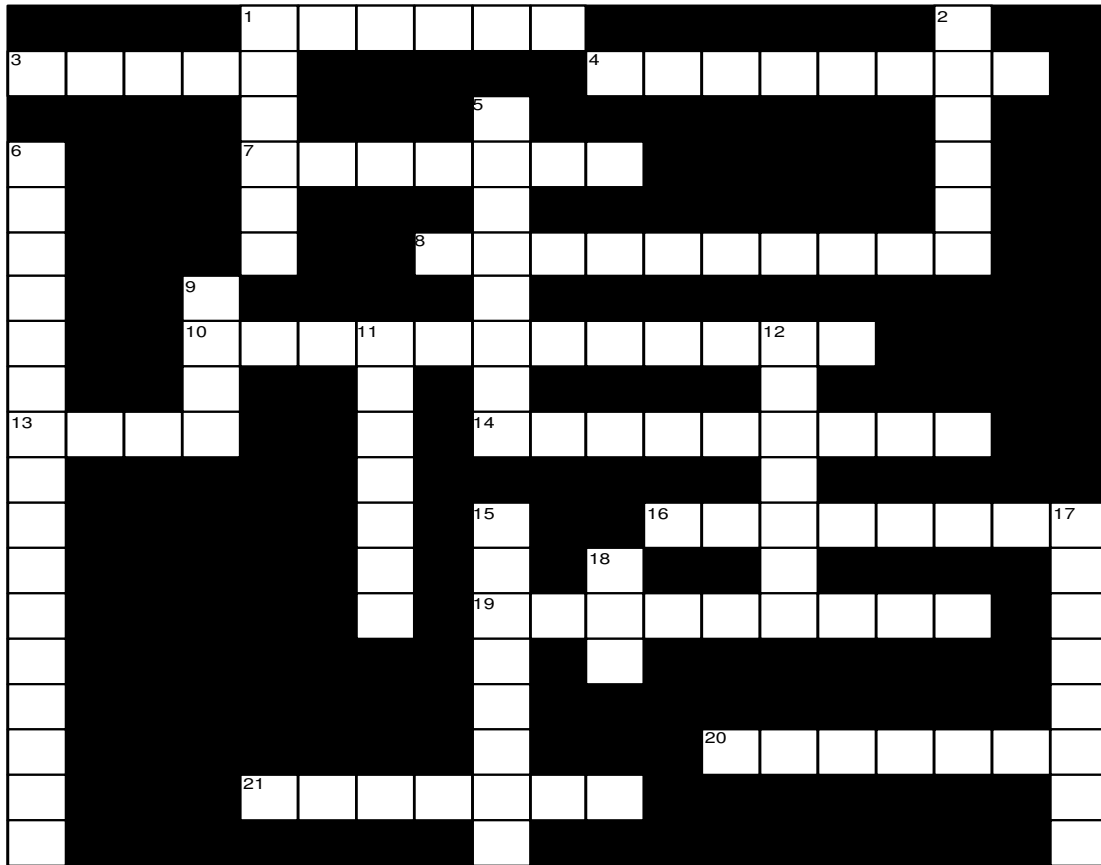


**PLUMBING LEVEL
PUZZLE BOOK**

2

SELECTahead Ltd

Selectahead Level Two Diploma in Plumbing and Heating Puzzle Book (Extract)
This crossword is about Principles of Plumbing in a plumbing and heating context.



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Across

Down

1	Water pressure in a water system is what at the lowest point?	1	Water will become less dense when this happens to it
3	A positively charged electrode is known as this	2	What is the name for the scientific unit of measurement of temperature?
4	Which type of gas builds up in radiators and can be caused by red rust?	5	What is the unit of measurement for the mass of an object?
7	The force required to pull something such as rope to the point where it breaks is called this	6	What is the name of the institution that has a 'Kitemark' as its logo? (2 words)
8	A method of heat transfer	9	If water has a pH value of below 7 it is classed as this
10	R250 and R290 are examples of which material commonly used in plumbing (2 words)	11	Some pipework is made from this material
13	This type of water causes limescale in pipework	12	If water has a pH of 7 it is classed as what on the pH scale
14	These move further apart when a gas or liquid is heated which results in a change of density	15	A brittle, heavy metal used in older properties for radiators and pipework (2 words)
16	The ability of a material to resist deformation is called this and is measured by the Moh's Scale	17	The ability of a material to withstand force and load without breaking
19	Type of steel often used in the manufacture of sinks	18	A unit of pressure measurement
20	Water temperature above this will cause water to change state (2 words)		
21	Metals that contain iron are known as this		

Selectahead Level Two Diploma in Plumbing and Heating Puzzle Book (Extract)

The text below describes how a Ring Main operates in domestic properties. Can you insert the correct word into each space from the table below?

The ring main within a domestic property supply's the socket outlets and fixed appliances in the property. A property may have a number of separate ring mains, with often the and being on circuits.

Each ring main at the and the cable then passes to the first socket and then onto the second, third and so on. The final connection in the ring main after the last socket is the to the consumer unit, completing the ring around the property.

As both ends of the ring are connected back to the consumer unit, the runs in both directions placing a reduced on the cable. Electrical appliances that consume high levels of power such as should not be connected to a ring main but have their own outlet from the consumer unit.

The consumer unit is at the centre of the wiring system in a domestic property. The unit distributes power to individual circuits in the property and circuit is provided by miniature circuit breakers which have replaced the older type fuse box.

In most cases, the cable used is 2.5mm² twin core and earth with an outer cover of sheathing and is rated at 24 amps. The cable contains three wires, a wire which is the live, a wire which is the neutral and a earth wire which is normally shielded in and yellow insulation when exposed in the socket box.

Extensions connected to the ring main are known as spurs. A spur is normally taken from an existing socket or by bridging a cable with a, with both using a single cable run. They are often used if a convenient socket outlet is not available when connecting a washing machine for example.

Missing Words

Showers	Upstairs
Red	Green
Consumer Unit	Blue
Junction Box	PVC
Rubber	Load
Copper	Black
Starts	Different
Current	Protection
13 amp plug	Table Lights
Return	Kitchen



Tip: Cross each word out as you use them but not all the words are used.

Selectahead Level Two Diploma in Plumbing and Heating Puzzle Book (Extract)

All the words are connected with Tools Used in Plumbing. 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?

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

Hidden Words

Slotted Screwdriver	Pipe Grips	Pliers
Phillips Screwdriver	Stillson Wrench	Bending Spring
Basin Key	Tape Measure	Power Drills
Lump Hammer	Adjustable Spanner	Drill Bits
Ball Pein Hammer	Spirit Level	Wood Bits
Wood Chisel	Pipe Cutter	Circular Saw
Cold Chisel	Hack Saw	Jig Saw
Bolster Chisel	Pad Saw	Crowbar

Tip: Cross the words out as you find them

Selectahead Level Two Diploma in Plumbing and Heating Puzzle Book (Extract)

All the words are connected with **Central Heating Systems**. 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?

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

Clues

1	Type of saw that should be used to cut micro bore copper tubing	10	Name of the point where an expansion vessel connects to a central heating system
2	Type of underfloor heating that has pipes buried in screed	11	Valve type found at the flow end of a radiator
3	Distribution component in an underfloor heating system	12	What does the P stand for in LPG?
4	Type of heat energy given off by underfloor heating	13	Very efficient type of boiler
5	A non return valve preventing unwanted circulation in central heating systems	14	Type of solid fuel
6	Highest point of a radiator	15	Valve type found on the return end of a radiator
7	The opposite of flow in a central heating system	16	Measures air temperature and controls the operation of the heating
8	Heating control is divided into these	17	Type of valve used on a fully pumped system
9	Valve that provides independent control of heating and hot water circuits	18	A new system should be checked for this fault