

PLUMBING

STUDY PACK

HCUC

A merger between Uxbridge College and Harrow College

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Plumbing Study Pack



Welcome to Construction, Building & Engineering services at Harrow College. The resources in this pack will help prepare you to start your course in September and give you an understanding of some of the techniques and skills you'll need to be successful as a student. Please bring this work to your tutor along with anything else you have created to enrolment; we'd love to see what you've done and look forward to meeting you.






Your pack is broken down into **3 tasks**. These have been designed to give you an insight into the topics covered within your chosen field. Each task has several steps to follow to complete it. The processes of researching and preparing your work are essential skills in becoming successful in Construction or Building & Engineering services.

Lesson one: Plumbing tools

(Zoom lesson: Tools used in the workshop Time and date to be arranged)

Task 1

Your task is to name each plumbing tool shown below, what that tool is used for and describe how to safely use it.

Tool name:	Safe use:	Used for:
		
		
		
		
		

Task 2: Write down a list of tools you would use to fix a leaking tap.

Lesson two: Plumbing materials

(Zoom lesson: Different plumbing materials and how to use them.)

Time and date to be arranged)

Task 1

List all the tools you would need to solder copper pipe together.

Describe the soldering process in five words:

1. _____
2. _____
3. _____
4. _____
5. _____

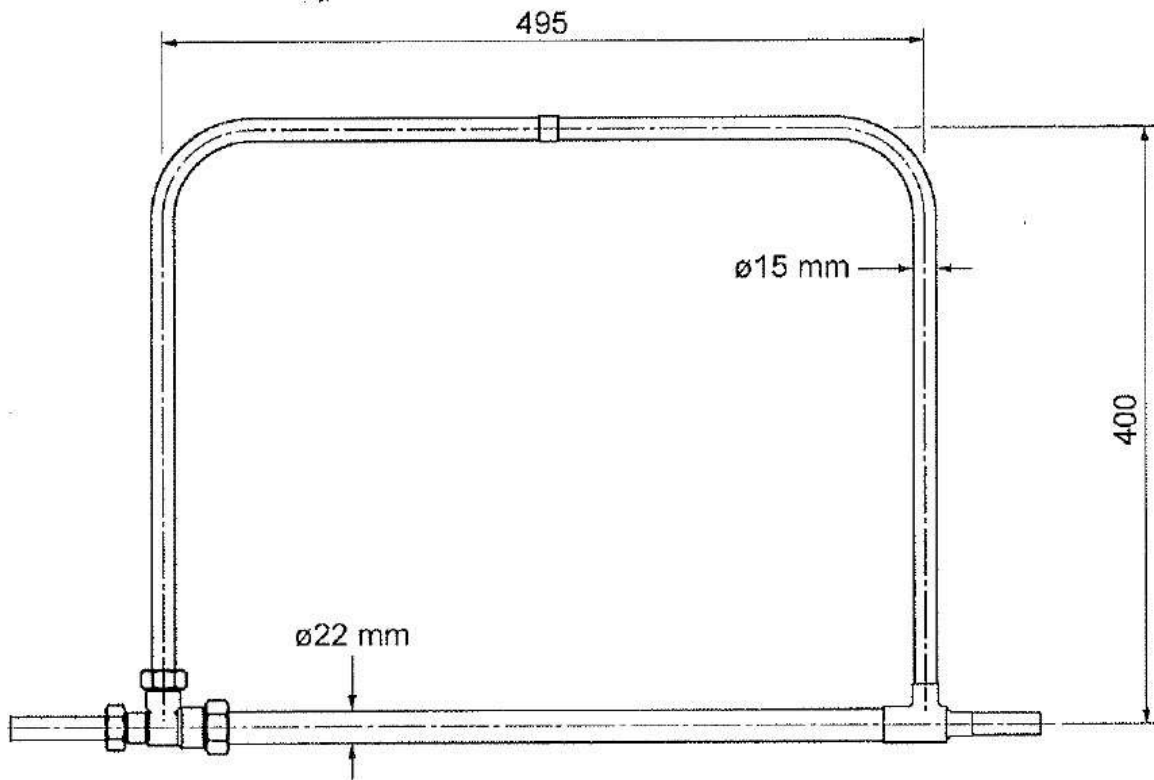
Task 2

State what these plumbing materials are made from:



Task 3

From the assessment drawing below, and materials price list. Produce a list of materials required for the task and a cost of each material needed. Calculate how much copper pipe is also required and the price of the overall amount of copper.

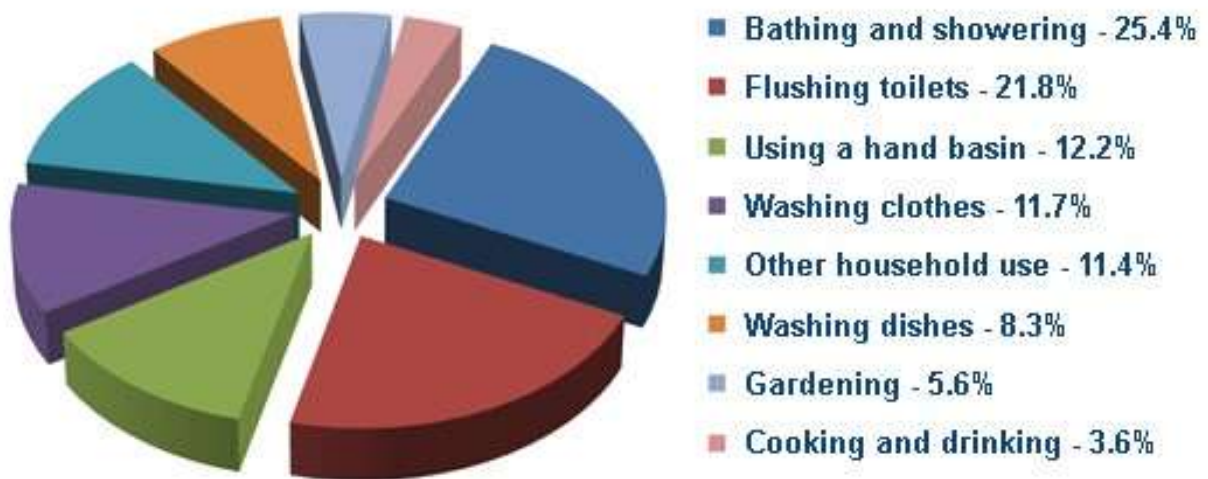


Copper Fitting:	Quantity:	Price:
15mm Elbow	25	£4.50
15mm Coupling	25	£4.17
15mm x 3m Pipe	10	£61.79
15mm Tee	25	£13.79
22-15-15mm Brass Tee	1	£4.18

Lesson three: Domestic Plumbing System

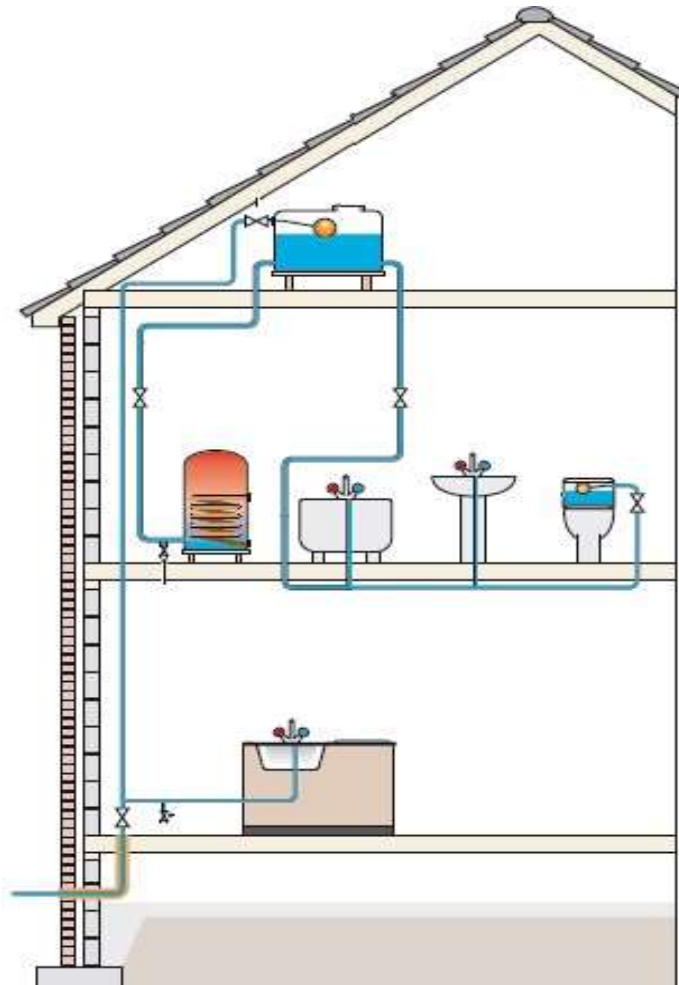
(Zoom lesson: Cold water system Time and date to be arranged)

Plumbers have a responsibility to design, install, test and maintain cold water systems correctly. We also need to advise customers on good water usage.



Indirect cold water systems

Only the kitchen sink and cistern are fed from the mains. All other appliances are fed from the cistern under gravity. This is the most common system used in domestic properties.



Task 1

Fill in the missing words below:

Higher, Lower, Gravity, Cold

- The _____ water leaves the cistern by _____
- The nearer to the cistern the outlet is the _____ the pressure
- The further from the cistern the outlet is the _____ the pressure

Task 2

Can you name these two items from the plumbing system?



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