huish EADSTART



CORE MATHS

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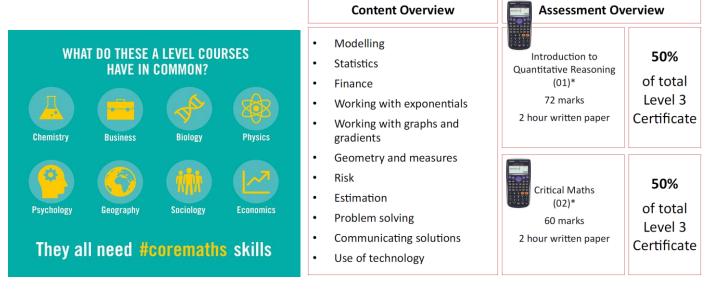


What is Core Maths?

https://amsp.org.uk/universities/core-maths

This qualification gives you the mathematical skills to tackle problems in a variety of authentic situations. It enables you to strengthen the mathematical knowledge and skills you learnt at GCSE so you can apply them to the problems you may encounter in further study, life and employment.

"It's not just skills for the exam."



The specification followed at Huish

https://www.ocr.org.uk/qualifications/core-maths/a-mei-level-3-certificate-h868/

HUISH HEADSTART TASKS

Core Maths at Huish is a 1 year course, usually as a 4th subject alongside 3 A levels. Read through the information and try the **TASKS** in each section. This will better prepare you for starting Core Maths and/or help you decide if it's the right course for you.

SECTION A – TASTER QUESTIONS – TASK 1
SECTION B – NUMBERS IS THE NEWS – TASK 2 and 3
SECTION C – GCSE REVISION – TASK 4 and 5

The estimate/suggestion is to spend about 4 hours on these tasks. If you have any questions please email andrews@richuish.ac.uk

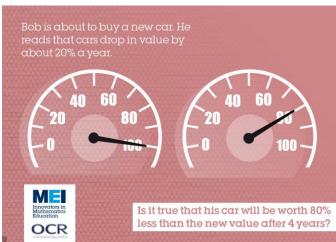
SECTION A – TASTER QUESTIONS

TASK 1 Classic Core Maths questions to make you think

Have a think about how you would answer these questions. There can be range of answers to Core Maths questions, justifying your decision making process is necessary. Keep all your notes and calculations, be ready to share and compare your ideas in class.















Here is a link to a practice quiz for TASK 1. https://forms.office.com/e/Gsejw9JSSm At the start of the term I will ask you to complete this quiz again and results will be recorded then.

SECTION B – NUMBERS IN THE NEWS



Core Maths is about the maths we see in everyday life. **More or Less** is an ideal radio programme to improve awareness of the maths and statistics all around us. Tim Harford explains - and sometimes debunks - the numbers and statistics used in political debate, the news and everyday life.

TASK 2



When can you trust statistics?

Watch the video https://www.bbc.co.uk/ideas/videos/when-can-you-trust-statistics/p09l3k0c

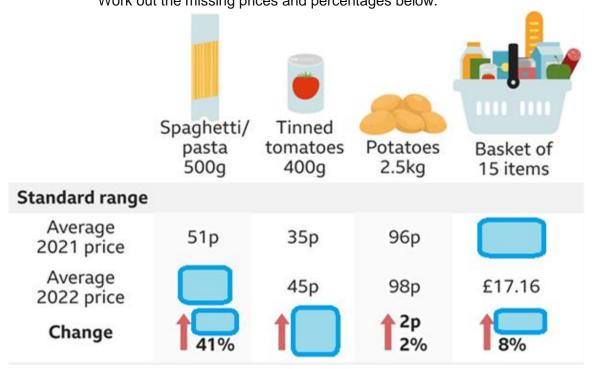
TASK 3

Here is an example of a 'Question inspired by a news story'! Do you trust the numbers in the news? Do you have the maths skills to be able to check the numbers in the news? Try the quiz.



Here is a link to a practice quiz for TASK 2 and TASK 3. https://forms.office.com/e/1JeiAUChFY At the start of the term I will ask you to complete this quiz again and results will be recorded then.

Cost of pasta and tinned tomatoes jumps as shop prices rise Work out the missing prices and percentages below.



http://quibans.blogspot.com/2022/02/quibans-104-basket-case.html

SECTION C – GCSE REVISION

TASK 4 Topics at GCSE level to know well before starting Core Maths

Thank you to BBC Bitesize for these short online tests. Below are the most relevant and necessary topics to get to grips with before starting Core Maths. Try each test, by clicking on the links below. A calculator is allowed for all questions. Aim for 100%, revise a topic if needed and then try test again.

	.	≣≣				
	Test	Revise	Try again >		Done Scores	
Number						
	Approximation https://www.bbc.co.uk/bitesize/guides/zscq6yc/test					
	Standard form https://www.bbc.co.uk/bitesize/guides/z8scdxs/test					
Financial maths https://www.bbc.co.uk/bitesize/guides/ztkmpbk/test						
	Algebra					
Using and interpreting graphs https://www.bbc.co.uk/bitesize/guides/zpmfgdm/test						
Algebraic formulae https://www.bbc.co.uk/bitesize/guides/z36vcj6/test						
Ratio, proportion and rates of change						
	Ratio in context https://www.bbc.co.uk/bitesize/guides/zpxyrwx/test					
	Percentages https://www.bbc.co.uk/bitesize/guides/z9rjxfr/test					
	Direct and inverse proportion https://www.bbc.co.uk/bitesize/guides/zqd6srd/test					
Geometry and Measure						
Units of measure https://www.bbc.co.uk/bitesize/guides/zcwhy4j/test						
	2-dimensional shapes https://www.bbc.co.uk/bitesize/guides/zgbd2nb/test					
	3-dimensional shapes https://www.bbc.co.uk/bitesize/guides/zqjhy4j/test					
	Circles, sectors and arcs https://www.bbc.co.uk/bitesize/guides/zt6vcj6/test					
	Probability					
	Probability htt	ps://www.bbc.	co.uk/bitesize/guides/zsrq6yc/test			
	Statistics					
	Representing da	ta https://www.	bbc.co.uk/bitesize/guides/zc7sb82/test	<u>4</u>		
	Analysing data h	nttps://www.bbc	.co.uk/bitesize/guides/zwhgk2p/test			
Problem solving						
Solving 'number' problems https://www.bbc.co.uk/bitesize/guides/zwpr8mn/test						
Solving 'graphical' problems https://www.bbc.co.uk/bitesize/guides/z3jpv9q/test						
	Solving 'geometric' problems https://www.bbc.co.uk/bitesize/guides/z8hgk2p/test					
Solving 'statistical' problems https://www.bbc.co.uk/bitesize/guides/zydtfcw/test						
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TASK 5 Optional Extra GCSE Questions

If you are confident with GCSE Maths, wordy questions and enjoy problem solving you are likely to get a high grade in Core Maths. About 30% of Core Maths will be new skills not seen at GCSE. The following GCSE questions look similar to parts of some Core Maths questions. Give them a try and then see the solutions to check.

Try Questions 4, 15, 19, 21 https://ocr.org.uk/lmages/563120-question-paper-paper-4.pdf
Solutions https://ocr.org.uk/lmages/563142-mark-scheme-paper-4.pdf

Try Questions 5, 7, 9, 11 https://ocr.org.uk/Images/563121-question-paper-paper-5.pdf
Solutions https://ocr.org.uk/Images/563143-mark-scheme-paper-5.pdf

Try Questions 1, 2, 3, 7, 8, 16 https://ocr.org.uk/lmages/563122-question-paper-paper-6.pdf
Solutions https://ocr.org.uk/lmages/563145-mark-scheme-paper-6.pdf

Thanks for trying the Core Maths Headstart. If you have any questions please email andrews@richuish.ac.uk