GCSE to A Level Mathematics Transition Work Summer 2024

- You need to complete the compulsory sections of this workbook before you start in September. The other sections are optional.
- You should complete all of your work on lined paper. This should include titles for each of the 6 sections and subheadings for each task completed.
- **You must show full working out for each question.**
- There are no answers provided as we will mark this in September. So if you get stuck you should follow the guidance in the table below which has recommended videos.
- **If you get really stuck on a question, or questions, please do not worry about it. Watch the videos and try again. If you still need help, we will be able to support you in September.**

Task	Compulsory?	Stuck? Try these Corbett Maths videos https://corbettmaths.com/contents/	Completed? ✔ ✘
Indices 1	Yes	17 - algebraic indices 172 - numerical indices 173 - fractional indices 174 - laws of indices 175 - negative indices	
Indices 2	Yes		
Roots and indices maze			
Matching pairs			
Where does it belong?			
Surds 1	Yes	305 - intro, rules, simplifying 306 - addition/subtraction 307 - rationalising denominators 308 - expanding brackets	
Surds 2	Yes		
Another brick in the wall			
True or false			
The wheel of Theodorus			
Further factorising 1	Yes	118 - factorise quadratics 119 - factorise quadratics harder 119a - splitting the middle (when the number in front of the squared term is greater than 1) 120 - difference of 2 squares	
Further factorising 2	Yes		
Difference of two squares	Yes		
ax² + bx + c	Yes		

Trickier quadratics	Yes		
Further factorising problems			
Factorising challenge			
Completing the square 1	Yes	10 - completing the square	
Completing the square 2	Yes		
Different forms			
Further factorising 1	Yes	7 - changing the subject 8 - changing the subject advanced	
Further factorising 2	Yes		
Equivalent quadratics			
The quadratic formula			
Solving quadratics 1	Yes	266 - quadratics: solving (factorising) 267a - quadratics: solving (completing the square) 267 - quadratics: formula	
Solving quadratics 2	Yes		
Quadthagoras			
Up in the air!	Yes		
Quadratics challenge			