Introduction to National 5 Course

Over the next 4 weeks you revise topics which will be very important to your success in National 5 and we will be assuming these are complete by your return to school. For the month of May, you can ask questions by emailing maths@coltnesshigh.n-lanark.sch.uk and we will create a Microsoft Team when we have a list of those who have picked National 5 Maths.

This booklet will contain 24 periods of work (12 doubles) to be completed during the month of June. All the topics covered in the booklet are essential to understanding the National 5 course.

The work issued will be using online Leckie and Leckie textbooks. You can access the textbook via the website <https://connect.collins.co.uk/school/defaultlogin.aspx> and using the login details below:

Username – COLTNESS1Student

Password – P@55word

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| --- | --- |
| Week 1 | Week 2 |
| * Day 1
	+ *Fractions: adding and subtracting*
	+ *Fractions: multiplying*
* Day 2
	+ *Fractions: dividing*
	+ *BODMAS*
* Day 3
	+ *Algebra: collecting like terms and simplifying*
	+ *Algebra: multiplying brackets*
 | * Day 1
	+ *Algebra: multiplying brackets and simplifying*
* Day 2
	+ *Algebra: multiplying brackets with FOIL*
* Day 3
	+ *Equations: one term*
	+ *Equations: terms on both sides*
 |
| Week 3 | Week 4 |
| * Day 1
	+ *Factorising; common factor*
	+ *Inequalities: (no sign change- this will be covered in class)*
* Day 2
	+ *Percentage: non-calculator*
	+ *Fractions of an amount*
* Day 3
	+ *Reverse percentages*
 | * Day 1
	+ *Pythagoras*
* Day 2
	+ *SOHCAHTOA*
* Day 3
	+ *Circle: circumference*
	+ *Circle: area*
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Week 1 Day 1

Fractions: Adding and Subtracting

“How to” Video: <https://corbettmaths.com/2012/08/21/fractions-addition-and-subtraction/>

Work to complete: CfE Maths Fourth Level Pupil Book Section 7 *Adding and Subtracting Fractions and Mixed Numbers*

Extra questions available at <https://corbettmaths.com/wp-content/uploads/2018/11/Fractions-Addition-2-pdf.pdf>

Fractions: Multiplying

“How to” Video: <https://corbettmaths.com/2012/08/21/multiplying-fractions-2/>

Work to complete: CfE Maths Fourth Level Pupil Book Section 7 *Multiplying Fractions and Mixed Numbers*

Extra questions available at <https://corbettmaths.com/wp-content/uploads/2018/12/Multiplying-Fractions-pdf.pdf>

Week 1 Day 2

Fractions: Dividing

“How to” Video: <https://corbettmaths.com/2012/08/21/division-with-fractions/>

Work to complete: Work to complete: CfE Maths Fourth Level Pupil Book Section 7 *Multiplying Fractions and Mixed Numbers Challenge Questions (between 7C and 7D)*

Extra questions available at <https://corbettmaths.com/wp-content/uploads/2018/11/Dividing-Fractions-pdf.pdf>

Bodmas

“How to” Video: <https://corbettmaths.com/2013/06/08/order-of-operations/>

Work to complete: CfE Maths Fourth Level Pupil Book Section 3 *BODMAS*

Extra questions available at <https://corbettmaths.com/wp-content/uploads/2018/11/Order-of-Operations-Exercise-211-pdf.pdf>

Week 1 Day 3

Algebra: Collecting Terms and Simplifying

“How to” Video: <https://corbettmaths.com/2013/12/28/collecting-like-terms-video-9/>

<https://corbettmaths.com/2013/03/13/multiplying-terms/>

Work to complete: CfE Maths Third Level Pupil Book Section 19 *Collecting Like Terms*

Extra questions available at <https://corbettmaths.com/wp-content/uploads/2013/02/collecting-like-terms-pdf3.pdf>

<https://corbettmaths.com/wp-content/uploads/2013/02/multiplying-terms-pdf1.pdf>

Algebra: Multiplying Brackets

“How to” Video: <https://corbettmaths.com/2013/12/23/expanding-brackets-video-13/>

Work to complete: CfE Maths Fourth Level Pupil Book Section 22 *Expanding Brackets Questions 3-5*

Extra questions available at <https://corbettmaths.com/wp-content/uploads/2013/02/expanding-brackets-pdf1.pdf>