

# Year 10 MATHS Revision – Hegarty Log – Cross-over

As revision for your year 10 exams we would like you to select your own Hegarty tasks from those listed below. The list covers all Cross-over Hegarty clips linked to our year 9, 10 and 11 rolling scheme of work (plus assumed prior knowledge). Please be aware that, depending on maths class, you may not have yet been taught each topic to the depth covered by all the Hegarty clips.

**THIS IS NOT A REVISION LIST** – It is just a guide of topics which might come up in your exams.

For homework over the next 4 weeks you are expected to complete a minimum of 3 tasks per week from the list below, plus the Memri task. Use might also like to use your Hegarty “Doughnut” to target topics which you have struggled with before.

If you prefer, you have the option to refresh lots of different tasks. If you do this please write your score out of the number of questions answered rather than the percentage gained.

Every week complete a page in this booklet as follows:

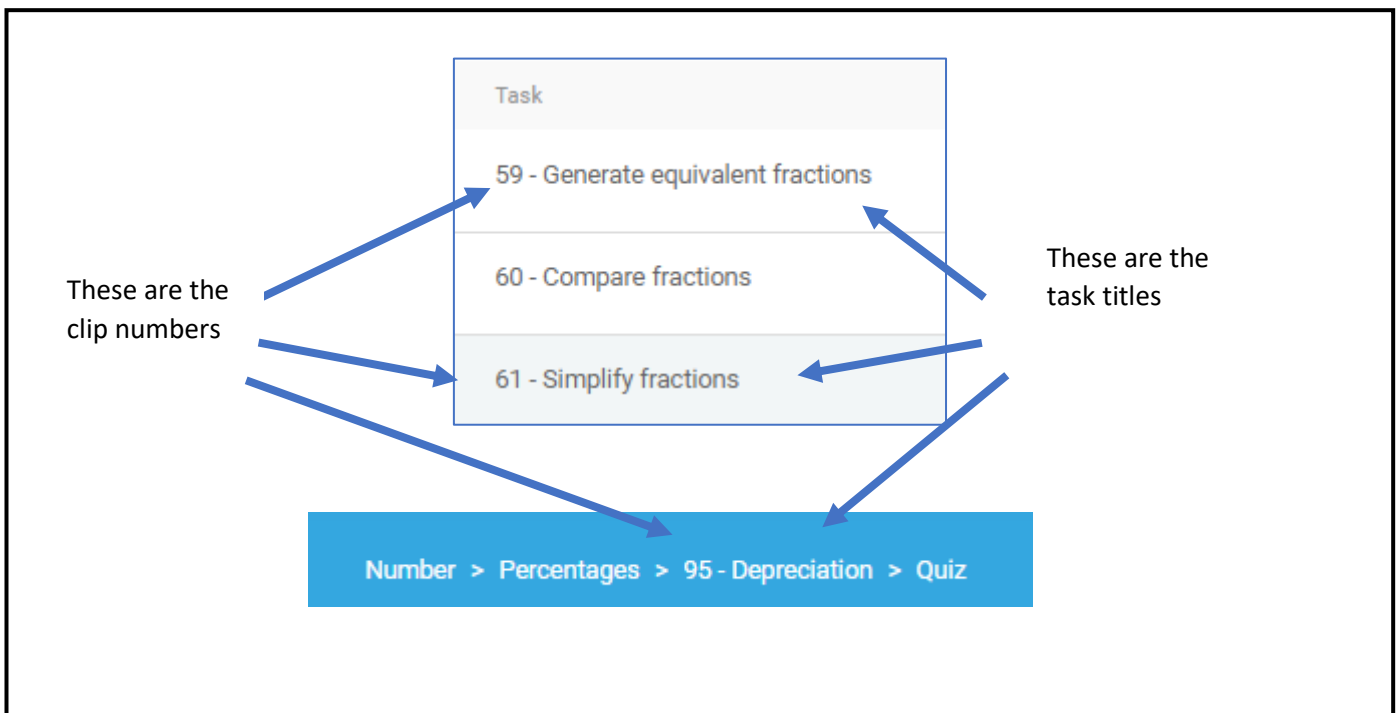
- write in the Hegarty task number (also called ‘clip number’),
- write in the task title,
- put your score in the appropriate column:

**R: 0 to 70%**

**A: 70 to 95%**

**G: 95 to 100%**

- write in your Memri score.



**Week 1 (completed by end of 3<sup>rd</sup> April)**

Clip number	Clip Title	Score			Memri Score
		R	A	G	

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Week 2 (completed by end of 10<sup>th</sup> April)**

Clip number	Clip Title	Score			Memri Score
		R	A	G	

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Week 3 (completed by end of 17<sup>th</sup> April)**

Clip number	Clip Title	Score			Memri Score
		R	A	G	

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Week 4 (completed by end of 24<sup>th</sup> April)**

Clip number	Clip Title	Score			Memri Score
		R	A	G	

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

**Week 5 (completed by end of 1<sup>st</sup> May)**

Clip number	Clip Title	Score			Memri Score
		R	A	G	

**Self-reflection:**

Give details of any topics which you struggled with or further topics revised.

Other good revision sites include

<https://corbettmaths.com/5-a-day/>

<https://www.mathsgenie.co.uk/gcse.html>

<https://www.onmaths.com/>

Log in to <https://hegartymaths.com/> to access videos and questions

## Number

Topics	Clip Number	R	A	G
Calculating with roots and indices	102, 103, 104, 105, 106, 107			
Repeated percentage change	91, 92			
Compound interest and depreciation	94, 95			
Error intervals	774, 775, 776			
Best buys	768, 769, 771, 772			

## Algebra

Topics	Clip Number	R	A	G
Substitution	782, 783, 278			
Manipulating algebraic expressions	175			
Changing the subject	285, 286, 287			
Identities	154			
Expanding double brackets	162, 163, 164, 165			
Factorising quadratic expressions: $x^2+bx+c$	221, 223, 224			
Gradient	203, 204			
Equation of a straight line	208, 209, 210, 211, 212, 213			
Equation of a straight line: Parallel lines	214			
Distance-time and speed-time graphs	876, 877, 878, 879, 880			
Speed-time graphs	880			
Sketch graphs	898, 899, 900, 901, 902			
Tariff graphs	897			
Quadratic graphs	252, 253, 254, 255			
Linear equations in one variable	184, 185, 186			
Quadratic equations	230, 234			
Simultaneous equations	190, 191, 192, 193, 194, 195			
Simultaneous equations on graphs	218, 219, 220			
Representing linear inequalities	265, 266, 267, 268			
Solving linear inequalities	269, 270, 271, 272			
Writing algebraic expressions and equations	151, 152, 153, 155, 188			
Quadratic sequences	247			

## Ratio and proportion

Topics	Clip Number	R	A	G
Ratio problems	335, 336, 337, 338			
Scale drawings	870, 871			

## Geometry and measures

Topics	Clip Number	R	A	G
Angle problems	488, 489, 490, 491			
Angles in polygons	565			
Congruence criteria	682, 683			
Enlargements	644, 645			
Conversion problems	714, 715			
Compound units: Speed	721, 722, 723			
Compound units: Density	725, 726, 727, 728, 729, 731			
Compound units: Pressure	734, 735, 736, 737			
Other compound units	738			
Bearings	496			
Circumference	537, 538			
Circle area	542, 543			
Surface area	587, 588, 589, 590, 591			
Volume	576, 577, 579, 580, 581, 582			
Arc length	544, 545			
Sector area	546, 547			
Pythagoras' theorem	497, 498, 499, 501, 502			
Trigonometry	508, 509, 510, 511, 512, 513, 514, 515			
Similar shapes	612, 613, 614			
Vectors	622, 623, 624, 625, 626			

## Probability

Topics	Clip Number	R	A	G
Experimental probability	357			
Independent events and probability trees	361, 362, 363			

## Statistics

Topics	Clip Number	R	A	G
Types of data	392, 393			
Sampling	394, 395, 396, 397, 398			
Time series	450, 451, 452			
Scatter graphs	453, 454			