

Using the progress ladder to support your learning in Mathematics

The progress ladder is an Excel file which you can use to support your studies in Mathematics. This document is intended to explain how to use your progress ladder. The progress ladder can be downloaded from the Mathematics department website. Students should save a copy of the progress ladder on their home computer and update it during their study of a topic. At the end of the topic they should keep a record of their assessment result.

Overview Page

The topics for the whole year are listed here – click on any of them to take you to the page for that topic which contains more detailed information about what material is covered.

Your teacher will indicate in your assessment if you are GREEN – at or above expected progress for you, ORANGE – just below expected progress for you or RED – you are significantly below where you should be. You can record the colour here.

Enter your assessment scores for each chapter - the cells are formatted to change colour depending on how well you have done to help you identify performance relative to other chapters.

Clicking on this box will take you to the targets for improvement section – use this page for revision and consolidation topics.

| Year | Term | Chapter | Topic | Confidence | Mark [/40] | % | Progress |
|------|------|---------|--------------------------------------|------------|-------------|---|----------|
| 9 | 6 | 3 | Angles and Polygons | | | | |
| 9 | 6 | 4 | Handling Data 1 | | | | |
| 10 | 1 | 1 | Calculations 1 | | | | |
| 10 | 1 | 7 | Working in 2D | | | | |
| 10 | 2 | 5 | Fractions, Decimals and Percentages | | | | |
| 10 | 2 | 2 | Expressions | | | | |
| 10 | 2 | 12 | Ratio and Proportion | | | | |
| 10 | 3 | 8 | Probability | | | | |
| 10 | 3 | 13 | Factors, Powers and Roots | | | | |
| 10 | 4 | 6 | Formulae and Functions | | | | |
| 10 | 4 | 11 | Circles and Constructions | | | | |
| 10 | 5 | 10a | Equations | | | | |
| 10 | 6 | 9 | Measures and Accuracy | | | | |
| 10 | 6 | 14 | Graphs 1 | | | | |
| 11 | 1 | 15 | Working in 3D | | | | |
| 11 | 1 | 10b | Inequalities | | | | |
| 11 | 1 | 19 | Pythagoras, Trigonometry and Vectors | | | | |
| 11 | 2 | 17 | Calculations 2 | | | | |
| 11 | 2 | 16 | Handling Data 2 | | | | |
| 11 | 3 | 18 | Graphs 2 | | | | |
| 11 | 3 | 20 | The Probability of Combined Events | | | | |
| 11 | 4 | 21 | Sequences | | | | |
| 11 | 4 | 22 | Units and Proportionality | | | | |

Areas for Improvement

Enter your Kerboodle login details here

| | |
|------------------|------|
| Login | |
| Password | |
| Institution code | bma2 |



Record your Kerboodle login details here


Click here to access the Kerboodle login page.

Topic Pages

The content covered in each topic is listed here...

You can choose your level of confidence for each statement either by typing in T, M, S, or N or selecting from the drop-down menu.

| Calculations 1 | |
|--|---|
| Statement | Confidence |
| Order positive and negative integers and decimals. | M |
| Round numbers to a given number of decimal places or significant figures. | M |
| Use mental and written methods to add, subtract, multiply and divide with positive and negative integers and decimals. | <div style="border: 1px solid black; padding: 2px; display: inline-block;"> T M S N </div> |
| Use BIDMAS to complete calculations in the correct order. | S |
| Overall Confidence | M |
| Return to Overview | |



This button will take you back to the overview page so you don't have to find the correct tab.

This will calculate an "average" rating for this topic based on your choice of TMSN confidence levels. The letter here will automatically appear on the overview page.

Clicking this logo will take you straight to Kerboodle

TMSN Confidence Rating

On each topic page you can enter one of T, M, S, or N. These stand for:

- T – I **totally** understand this aspect of the topic and feel confident I would get any question related to it correct, provided I didn't make a mistake.
- M – I **mostly** understand this aspect of the topic and feel confident I would get a question similar to those I have practiced correct.
- S – I understand **some** aspects of the topic, I could start a question, but don't feel confident I would get it correct.
- N – I understand **none** of this aspect of the topic and would not be able to answer a question.



Areas for Improvement Page

The areas for improvement page will automatically generate up to 10 statements for you to work on based on your TMSN confidence selections on the topic pages. Statements will appear in reverse order of confidence (ie. N statements first then S etc.) and statements with the same confidence level will appear in the order they were taught. As you improve your understanding you can go back to the topic pages and change your TMSN confidence level and the list will update itself.

Next steps

Once you have identified the area in which you need to improve, you should look back through your notes and thoroughly learn the facts, formulae and strategies that you need. The best way to improve with Mathematics is to 'do' Mathematics, i.e. attempt questions.

- The textbooks available through Kerboodle have video clip tutorials and large banks of questions, referenced in your progress ladder. It is always excellent practice to attempt the REVIEW skills based questions at the end of each chapter.
- MyMaths provides tutorials and immediate feedback to questions.

Don't forget there is Mathematics support in M5 every lunchtime where the Mathematics subject leader will help you on a first-come first-served basis.