MATHS AND THE FLIPPED CLASSROOM
What is the Flipped Classroom?

In general, students learn in the classroom and practice what they have learnt for homework. The Flipped Classroom turns this round. Students research/learn for homework and put it into practice in the classroom.
Why use the Flipped Classroom?
Students are being required more and more to research and study independently at Higher Education Institutions.
The skills developed are valuable for the workplace.
It uses the classroom time more effectively for practicing skills and picking up misconceptions. It also allows for greater personalised learning.
Why use the Flipped Classroom?
It encourages students to take greater responsibility for their learning.

It allows for a great deal of collaboration and cooperation between students.

It helps on the journey towards mastery of a subject as students come ready prepared for the lesson.
My Experiences of Using the Flipped Classroom

Year 13 Core Maths – a small group of mixed ability students (all male), all of whom are extremely motivated.

Year 12 Decision Maths – a large group of mixed ability students with a broad range of motivation.

Year 7 – a good middle ability group.
Suggestions for Introducing the Flipped Classroom

Start small – maybe with one or two groups

Be specific with the learning you want them to do.

Better to have a smaller amount that they do well than a lot that is done badly.

Plan the following lesson carefully
Suggestions for Introducing the Flipped Classroom

Plan for the students who will not have done the learning

Plan the following lesson carefully

Choose when to use it as some topics work better than others.

Check the resources you tell students to use.
Some Quotes (Positives) From Students

It helps to have some sort of idea of what we will be learning in the lesson. I like coming to lessons with a knowledge of the topic so we can attempt more challenging questions. It increases our independence and skills for further education. It increases the amount of time in lessons for practicing and sorting out problems rather than learning it.
Some Quotes (Negatives) From Students

You have to be motivated to do the learning.

Not everyone does it.

Sometimes the book or other resources don’t explain things properly so we still have to do it in class.

Some topics are better explained by the teacher and then build on it at home.