

# 1 Timetable

DT	Specialist subject	Workshop 1	Workshop 2
Timo	M&R	[1] Mon 3pm Fulton 204	[2] Tuesdays 3-4 pm Arts A04
Rachel	M&R	[3] Wed 10 am Fulton 201	[4] Thurs 1pm Pev1 2A
Rob	MM1	[1] Mon 3pm Fulton 204	[4] Thurs 1pm Pev1 2A
Jussi	MM1	[2] Tuesdays 3pm Arts A04	[3] Wednesdays 10-11 am Fulton 201
Nicolo	M&R	[1x] Mondays 3-4 pm ONLINE	[4x] Thursdays 1-2 pm ONLINE
Zoe	MM1	[1x] Mondays 3-4 pm ONLINE	[4x] Thursdays 1-2 pm ONLINE

## 2 Face-to-face workshops

### 2.1 Arrival and setup

Arrive at the allocated teaching space on the hour.

Login to the computer and have the workshop questions for both MM1 and M&R ready to share on the projector.

Login to poll everywhere ilovephysics and activate the poll "Workshop N questions". Share this on the projector. Normally teaching sessions run from :00 to :50, but considering the current health and safety stuff for the pandemic, I would aim to start at 5 minutes past the hour and finish at 10 minutes to the hour.

### 2.2 Introduction

Explain that the workshop should be roughly 20 mins each on MM1 and M&R

Ask the students to indicate any questions they are struggling with on the poll. They will almost certainly pick those that they are asked to submit the answers for for grading.

Tell the students that they should discuss and work together if they want to, and it is also fine to work alone if they wish.

Tell them that if they would like any answers checked or want anything clarified, to put their hand up

Walk around the room to see if anyone needs a paper copy of the questions or has any questions

### 2.3 Helping students

If they show you an answer and it is numerically correct, let them know that it is. This is also fine to do for the highlighted questions for submission.

If they show you an answer and it is incorrect, read the question aloud with them and then go through their working step by step.

Remember that there is usually more than one way of solving a problem. Their method may not be wrong, but to save you having to determine this on the fly, a good technique is to say 'right, this may well be a good method for solving this problem, but may I share with you the method I prefer?' - this way you can stick to the worked solutions we have provided you with. If a student say they really don't understand, or really are struggling to make a start, check with them if they have attempted the adaptive practice assignments on canvas. Those assignments link the students to the sections of the eTextbook they should read. They may have had trouble getting on to canvas or setting up wiley - often I meet students who have almost no technical skills - if this is the case please get their email and email them and me so we can set up a time to get them going online.

### 2.4 Finishing up

Explain to the students that they should take a photo of their attempt at the highlighted questions and upload to the correct canvas page by the end of this week.

## 3 Zoom workshops

### 3.1 Arrival and setup

Join or start the zoom session on the hour.

There will be two breakout rooms, one for each topic.

Have the workshop questions for both MM1 and M&R ready to share on zoom.

Login to poll everywhere ilovephysics and activate the poll "Workshop N questions". Share this on zoom. Normally teaching sessions run from :00 to :50, but considering the current health and safety stuff for the pandemic, I would aim to start at 5 minutes past the hour and finish at 10 minutes to the hour.

### 3.2 Introduction

Explain that the workshop should be roughly 20 mins each on MM1 and M&R

Ask the students to indicate any questions they are struggling with on the poll. They will almost certainly pick those that they are asked to submit the answers for for grading.

Tell the students that they should discuss and work together if they want to, and it is also fine to work alone if they wish.

Tell them that if they would like any answers checked or want anything clarified, to go to the relevant breakout room and to put their hand up

Join your respective breakout rooms

### 3.3 Helping students

If a student puts their hand up, say hi and ask them how you can help.

If they show/tell you an answer and it is numerically correct, let them know that it is. This is also fine to do for the highlighted questions for submission.

If they show/tell you an answer and it is incorrect, read the question aloud with them and then go through their working step by step.

Remember that there is usually more than one way of solving a problem. Their method may not be wrong, but to save you having to determine this on the fly, a good technique is to say 'right, this may well be a good method for solving this problem, but may I share with you the method I prefer?' - this way you can stick to the worked solutions we have provided you with.

If a student say they really don't understand, or really are struggling to make a start, check with them if they have attempted the adaptive practice assignments on canvas. Those assignments link the students to the sections of the eText-book they should read. They may have had trouble getting on to canvas or setting up wiley - often I meet students who have almost no technical skills - if this is the case please get their email and email them and me so we can set up a time to get them going online.

### 3.4 Finishing up

Explain to the students that they should take a photo of their attempt at the highlighted questions and upload to the correct canvas page by the end of this week.

## 4 Marking

Students will upload a photo of their answers to the workshop problems for MM1 and M&R by Friday at noon (so the first for 2021 will be Friday 8th October).

The uploads will then be accessible via speedgrader from the respective canvas sites, filtered by student group (Axions etc).

The marking is out of 3:

0 : Nothing uploaded

1 : Something uploaded, but nothing that makes sense. If they have uploaded a blank page for example, or if they have written the question but not attempted an answer. Or, if they uploaded just the answer, with no working.

2 : An attempt has been made to solve the question, but it is not complete. For example (for the first M&R question), they might have done the integral right but not solved the quadratic, or vice versa.

3 . The correct answer is given.