

## PREPARATION MATERIAL

### Instructions for Students

We are delighted that you are visiting Churchill College, Cambridge. As part of your visit you will be participating in a National Project called [isaacphysics.org](https://isaacphysics.org). It will be of great benefit to you to have a look at this project in advance and more importantly attempt some physics questions in preparation for our sessions. The activities during your visit will be modelled on the lecture-supervision system that forms a big part of studying at Cambridge. You will work in groups to solve interesting physics projects (aimed for Year 12 students) with a lecturer/supervisor.

### Accessing the material

To access the 10 preparation questions please follow these short instructions CAREFULLY AND FULLY.

1. Sign up (for FREE) at <https://isaacphysics.org/login> (if you are signed up already just login).
2. Click on this link <https://isaacphysics.org/account?authToken=NTC5QRT>
3. You will then be asked to grant permission to Dr Jardine-Wright by clicking OK in the pop-up box. YOU MUST DO THIS TO SEE THE QUESTIONS (your assignment).
4. The 10 practice questions will then appear as an assignment when you follow this link <https://isaacphysics.org/assignments>
5. If you have any problems with the above four steps then email [lisa@isaacphysics.org](mailto:lisa@isaacphysics.org)

## IN CAMBRIDGE

If you've indicated that you want to attend Churchill's Sciences Open Day on 4<sup>th</sup> April, you'll receive separate information about that at the end of March from Jonathan Padley. After the Open Day finishes, the Physical Sciences **Residential programme will begin**. If you haven't attended the Open Day, you'll need to arrive at Churchill by 3pm on 4<sup>th</sup> April.

### 4<sup>th</sup> April

Time	Venue	Activity
3.15pm-4.15pm	Club Room	Meet your tutor and get to know each other
4.15pm-5:45pm	Own College room	Collect your overnight room key from the Porters' Lodge and settle in. Additional time to finish off the preparation material given above.
5:45pm-6:45pm	Dining Hall	Dinner
7pm-9:30pm	Club Room	Workshop on group problem-solving

### 5<sup>th</sup> April

Time	Venue	Activity
8am-9am	Dining Hall	Breakfast and return overnight room key
9am-9:15am		Walk to the Cavendish Laboratory
9:15am – 12pm	Pippard Lecture Theatre Foyer	Practical and workshop on physics vectors
12pm-12:15pm		Walk to Churchill
12:15pm-1pm	Dining Hall	Lunch
1pm-3pm	Club Room	Workshop on exponentials
3pm		Depart from Churchill