



# YAVNEH COLLEGE

SCIENCE DEPARTMENT

## TEACHER OF PHYSICS

- To start Jan 2019
- Full-time
- To teach up to and including A level physics
- NQTs welcome
- All NQTs supported throughout the year with an excellent bespoke programme

## OUR LATEST SUCCESS



Innovate TfL finalist team outside  
The Royal Institute of Mechanical  
Engineers March 2017

## THE SCIENCE DEPARTMENT

The Science department is housed in seven modern, purpose built labs with 9 members of staff, supported by four technicians (three full-time equivalent) in a spacious well designed prep room.

Every lab has good storage space. The two A level chemistry labs have a fixed fume cupboard and additional sinks and worktops. The mobile fume cupboard can be used in all the other labs.

Every lab and classroom within the school has a visualizer. This allows teachers and pupils to share work with the class. Practicals can be carried out on the visualizer and projected onto the whiteboard – this is particularly useful if the equipment is very small or if the observed change in a chemical reaction is very hard to see from a distance when demonstrating a practical to the class.

In addition to the computer rooms that can be booked in advance, there is a laptop trolley that the science department can book.

### PRACTICALS & EQUIPMENT

Practicals are done routinely within the science department and as a result the pupils develop good lab techniques. Pupils work in threes for the majority of practicals in KS3 and KS4. At A level the students will most probably work alone to develop the higher lab skills required to become proficient and show competencies. As a result, the transition to the new A level curriculum has been smooth, particularly with regard to the required practicals which we see as an absolute minimum.



# YAVNEH COLLEGE

NQTS WELCOME

TEACHER VACANCY (FULL TIME)

## PHYSICS AT YAVNEH COLLEGE

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Physics is an integral part of the thriving Science department in Yavneh College and many of our students graduate to study physics or an engineering related degree at Russell Group universities.

### KS3 Practical: Solar cookers



NSEW: Every lunchtime for one week there are a host of activities for pupils in KS3 and KS4 to take part in.

Sixth form science prefects help run the sessions and the staff volunteer on a rotational basis. It's always a lot of fun and a hive of activity.

## THE SCIENCE CURRICULUM

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### KS3 SCIENCE

KS3 is taught in Year 7 and 8 and pupils are in mixed ability classes. We follow the Oxford Activate scheme of work.

### GCSE SCIENCE

AQA GCSE is taught in 6 groups from Year 9 - Year 11. There are two triple science classes and four double science classes.

Within the double and triple classes, the pupils are mixed ability. We follow the AQA Trilogy route for the double science award. Every pupil has a Collins Connect login to access materials.

We have devised excellent protocols for helping pupils develop their practical skills and record their experiments. This has come about as a result of following the AQA iGCSE exam specification for the past five years where there has been no practical exam/assessment. Instead, the practical skills and understanding are in the terminal written papers as they are in the new GCSE exams.

### A LEVEL PHYSICS

We follow the AQA A level physics specification. In each year we average 20 students and depending on the precise number will depend on whether they are taught in one or two groups.



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The teaching resources in our department shared area are excellent, as are all the teaching resources within the department at all key stages.

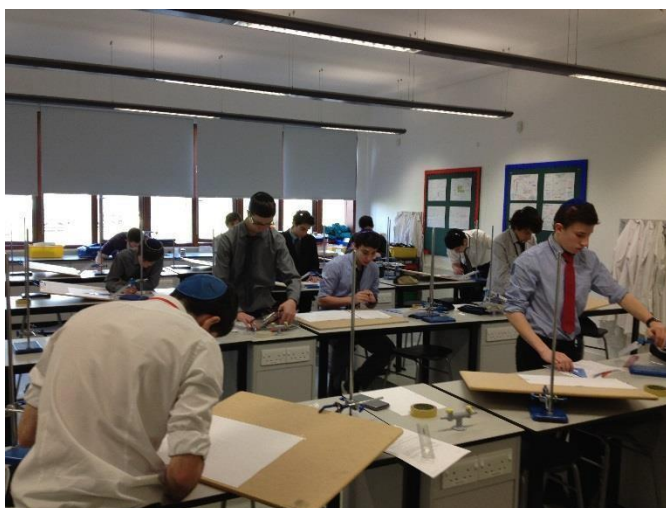
## THE DEPARTMENT

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The staff within the department are highly collegiate and enjoy a great deal of collaborative work. It is this aspect that makes teaching science at Yavneh so special. The department are warm and supportive and there is an open culture to develop new ideas.



Investigating the energy content of different food types



As NQTs join the department they bring with them their ideas and this is always welcomed as we are continually learning from one another.

## OUTREACH

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Practicals are a frequent feature of science throughout the years.

In previous years we have run a Year 5 Forensics Day with local Jewish Primary schools. Some of our AG&T pupils have been recently trained as Science Ambassadors through the IoP and will soon be working with our local primary schools.





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## EXTRACURRICULAR

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There are always competitions of one sort or another going on within the science department for pupils in various key stages. For example, the Physics Olympiad, the Weizmann Safecracking and the TfL Innovate challenge.

Pupils have achieved CREST awards and entered (and been successful) in international competitions.

## ACADEMIC SUCCESS 2018

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|                              |                 |
|------------------------------|-----------------|
| GCSE Triple Science: Physics | 84% grades 9-7  |
| GCSE Double Science          | 85% grades 9-4  |
| A level Physics              | 80% A*-B grades |

## JOIN OUR TEAM

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We appreciate the time and effort it takes to complete an application form and therefore thank you for taking the time to apply to Yavneh College.

Suzie Shiradski  
Head of Science  
Nov 2018