

# APPLIED SCIENCE TRANSITION WORK

We look forward to seeing you in our Science Department this September!

## PLEASE COMPLETE THE FOLLOWING TASKS:

Using the planning grid on Page 5 - Draft a plan for the provided practicals.

Be sure to answer the questions provided in the booklet - This is good practice for your Unit 3 exam.

Answer ALL the 12 mark planning questions provided in this booklet. Videos provided below for examples of practical set up. Be sure to use these videos to help you with equipment, methods etc, you may need to change variables or parts of the experiment using your own knowledge.

1. Effect of Light Intensity on Plant Growth  
[Photosynthesis practical-Leaving Cert-Light Intensity](#)
2. Effect of Surface Area on Rate of Diffusion  
[Diffusion practical - agar jelly with various surface area to volume ratios](#)
3. Effect of Temperature on Rate of Digestion of Starch by Amylase  
[Enzymes - GCSE Science Required Practical](#)
4. Effect of Width on Resistance of a Wire  
[Resistance of a Wire Experiment - GCSE Physics Required Practical](#)
5. Variation in Resistance with Light Brightness for an LDR  
[LDR experiment](#)
6. Burning Fuels - Number of Carbon Atoms impacts Heat Energy produced.  
[Burning Fuels](#)
7. Effect of Substrate Concentration on Enzyme Activity.  
[A Level Biology Revision "The Effect of Substrate Concentration and Enzyme Concentration on Enzymes"](#)

