Year 10 Autumn 2 SoW and HW plan

B8.1 Photosynthesis	1. State the raw materials and products of photosynthesis (G3) 2: Describe the adaptations of the leaf for photosynthesis (G5) 3: Analyse how the adaptations of the leaf aid the process of photosynthesis (G7)	**Embed:** Doddle: leaf adaptations (KS3 revision, but still pertinent) https://www.doddlelearn.co.uk/app/teacher/launch-content/96fd29ce-3e58-4fcb-851d-dc6c05e301f1
B8.2 The rate of photosynthesis	1: Describe the effect of light intensity, temperature and carbon dioxide on the rate of photosynthesis (G4) 2: Explain what happens to the enzymes which control the rate of photosynthesis when the temperature is too high (G6) 3: Apply the light intensity and inverse square law (G8)	**Apply:** Differentiated practical design for the required practical. Sheets for Sets 1-3 on shared.
Required practical: Effect of light intensity on the rate of photosynthesis	1: Safely complete a practical to test the effect of light intensity on the rate of photosynthesis. 2: Plot a line graph of your results 3: Conclude what your results show	Consolidate: finish practical work
B8.3 How plants use glucose	1: State how plants use glucose 2: Describe how plants produce proteins and lipids 3: Explain how you test leaves for starch	**Embed:** Doddle Foundation: https://www.doddlelearn.co.uk/app/teacher/launch-content/269290e4-d79a-47b3-86f6-9969258fb765 Doddle Higher: https://www.doddlelearn.co.uk/app/teacher/launch-content/650482ed-1339-4976-8c29-781b92ec1494
Practical: Testing leaves for starch		
B8.4 Making the most of photosynthesis	1: Describe how the different factors affecting the rate of photosynthesis interact (G5) 2: Analyse how humans can manipulate the environment in which plants grow (G8)	**Challenge / Interleaving** B8: Checkpoint follow-up. Differentiated; on Kerboodle. Aiming for G8 needs a photomicrograph of a section through a leaf provided.
REVISION		**Challenge :**5. PiXL Independence _KS4_GCSE Biology_Photosynthesis_Booklet.pdf

TEST		
DIRT		**<u>Go Green:</u>** Individual outcomes