Y9 Biology progression

LDU is responsible for updating lessons and uploading Kerboodle resources

Key:
Separates only content

Assessment: Y9 teacher teaching physics to organise. All classes to do the same assessment.

Required practical: See Y10 folder for guidance and practical sheets - To be written up in a 'skinny yellow exercise book' Name, class, and Required practicals on the front.
Have students divide it into thirds - Biology required practicals - page 1 in first third: Chemistry required practicals - page 1 in second third; Physics required practicals - page 1 in final third of lab book.
Absent students **MUST** copy up and record results. Other students perhaps take photographs? (Very good onion cell photos taken through the eyepiece lens of the microscope with 9sc1 last year)

Lesson	Spec and Topic	Homework/ Assessment	Timecheck/ Assessment responsibility
Topic 1: Plant and animal cells			
01	Animal cell structure		
02	Animal cell - Functions of organelles		
03	Plant cell structure	Homework	Self/ peer
04	Plant cell - Functions of organelles		
05	Comparing plant and animal cells		
06	Specialised cells	**Targeted revision homework**	Self/ peer
07	**Mid topic common assessment**		**PENS teacher assessment**
08	Assessment review and next steps	**Targeted moving forward homework**	Self/ peer
09	Eukaryotic and prokaryotic cells		
10	The light and electron microscopes (inc magnification calculations)	**Targeted revision homework**	Self/ peer
11	Investigating cells (Onion, cheek, prepared slides)		
12	**Required practical 1: Microscopy**		
13	**End of topic common assessment**		**PENS teacher assessment**

14	**Assessment review and next steps**	**Targeted moving forward homework**	Student NS response
Topic 2: Chromosomes			
15	Chromosomes, genes, and DNA		
16	Karyotyping		
17	Mitosis	Homework	Self/ peer
18	Mitosis practical		
19	**Chromosomes, eukaryotes and prokaryotes, and microscopes common assessment**		**PENS teacher assessment**
20	**Chromosomes, eukaryotes and prokaryotes, and microscopes common assessment review and next steps**	**Targeted moving forward homework**	Student NS response
Topic 3: Stem cells			
21	Stem cell stories		
22	Stem cell ethics	Homework	Self/ peer
23	**6 mark question practice**		**PENS teacher assessment**
24	**Stem cells 6 mark question assessment review and next steps**	**Targeted moving forward homework**	Student NS response
Topic 4: Transport of substances in plants and animals			
25	Diffusion and osmosis		
26	Osmosis investigation (potatoes or chicken eggs)		
27	**Required practical 3: Investigating the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue**		
28	Active transport	Homework	Self/ peer
29	**6 mark question exam practice**		**PENS teacher assessment**
30	**Transport 6 mark question assessment review and next steps**	**Targeted moving forward homework**	Student NS response