**Time Line Year 10 2017 – 2018**

1. Theory on chromosomes, DNA etc.
2. Mitosis and Cell cycle.
3. Stem cells theory. Set up cuttings experiment
4. Stem cells LRC lesson
5. Stem cell presentation lesson
6. Stem cell debate lesson Look at cuttings.
7. Common Assessment (10.01 Mitosis and stem cells)
8. Go over common assessment
9. Diffusion, osmosis and active transport - demonstrations and theory.
10. Agar cube practical.
11. RP3: Chips
12. RP3: Chips
13. Common Assessment (10.02 Movement across membranes)
14. Go over common assessment.
15. Proteins and enzymes. Theory and demo. Digestion and digestive enzymes (link to METABOLISM). Link to digestion/ food tests.
16. Catalase and different foods.
17. RP5: Starch and amylase ( pH spotting tile method). Calculate rates of reaction.
18. Industrial enzymes poster (LRC)
19. Digestion and digestive system.
20. RP4: Food Tests
21. Common Assessment (10.03 Enzymes and digestion)
22. Go over common assessment. Heart and lung work sheet for home work
23. Heart (a bit on lung structure). Heart dissection.
24. SA node and artificial pacemakers.
25. Blood vessel theory and Bandas.
26. LRC Research lesson: CHD, valves, transplants etc.
27. Presentations
28. Presentations and theory on health issues
29. Lesson using resources to translate disease incidence data between various forms
30. Common Assessment 10.04 Heart
31. Go over Common Assessment.
32. LRC Research: groups to provide a ‘book’ on 4.2.2.6 : Lifestyle and Health
33. Lesson using resources to translate disease incidence data between various forms
34. Theory lesson on cancer.
35. Common Assessment 10.05 Disease (animal)
36. Go over Common Assessment
37. Plant tissues, organs and systems. Theory and celery stem (coloured water) observation under microscopes R.P.1: Microscopy
38. Adaptations of root hair cells, xylem and phloem. Further work with Bandas and microscopes. R.P.1 Microscopy
39. Structure and function of stomata. Stomatal peel. R.P.1 Microscopy
40. Transpiration and photometer.
41. Common Assessment 10.06 Plant tissues, gas exchange and transport
42. Go over Common Assessment
43. LRC Research: Plant and animal diseases. (Don’t forget 4.3.3. (p 36)
44. Presentations
45. Presentations. Start immunity.
46. Continue with Immunity theory and vaccination, also plant defences.
47. Common Assessment 10.07 Immunity/Plant and Animal Disease
48. Go over Common Assessment
49. Photosynthesis theory. How plants use the products of photosynthesis.
50. RP 6 Photosynthesis
51. Horticulture/greenhouses and understanding relevant data.
52. Common Assessment 10.08 Photosynthesis
53. Go over Common Assessment
54. Respiration theory. Metabolism. Make bread
55. Respiration and Exercise Investigation (bottles of water?)
56. Common Assessment 10.09: Respiration
57. Go over Respiration Common Assessment.
58. Common Assessment 10.10 End of Year mock