

## Revision Program

### Biology

1. Living Things  
Experiment: To investigate the variety of living things  
Chapter: 1  
Unit: 10
2. Cells and the Microscope  
Experiment: To prepare a slide of Onion cells  
Chapter: 2  
Unit: 10
3. Food  
Experiment: To carry out Food Tests for Starch, Glucose, Protein and Fat  
Experiment: To burn food to measure the amount of energy in it.  
Chapter: 3  
Unit: 4
4. Digestion and Enzymes  
Experiment: To show the action of Amylase on Starch  
Chapter: 4  
Unit: 12
5. Respiration and Breathing System  
Experiment: To show that exhaled air contains more carbon dioxide than inhaled air  
Chapter: 5  
Unit: 22
6. The Circulatory System  
Chapter: 6  
Unit: 15
7. Excretion  
Chapter: 7  
Unit: 32
8. The Skeletal and Muscular Systems  
Chapter: 8  
Unit: 4
9. The Sensory System  
Chapter: 9  
Unit: 31

10. The Reproductive System  
Chapter: 10  
Unit: 28
11. Genetics  
Chapter: 11  
Unit: 28
12. Structure and Transport in Flowering Plants  
Chapters: 12 & 14  
Unit: 26
13. Photosynthesis and Plant Responses  
Experiment: To show that Starch is produced in Photosynthesis  
Chapters: 13 & 15  
Unit: 22
14. Plant Reproduction  
Experiment: To show the conditions needed for Germination  
Chapter: 16  
Unit: 6
15. Ecology  
Experiment: To investigate a local ecosystem using Keys and Equipment  
to show what's there  
Chapters: 17, 18 & 19  
Unit: 18
16. Microbiology and Biotechnology  
Experiment: To show that there are micro-organisms in air and soil  
Chapter: 20  
Unit: 34

## Chemistry

17. Solids, Liquids and Gases  
Chapter: 21  
Unit: 1
18. Solutions and Crystallisation  
Experiment: To grow crystals of Copper sulfate  
Chapter: 23  
Unit: 9

19. Separating Mixtures  
Experiment: To use the techniques of Chromatography, Filtration, Evaporation and Distillation.  
Chapter: 24  
Unit: 3
20. Elements, Compounds and Mixtures  
Chapter: 22  
Unit: 3
21. The Atom  
Chapter: 25  
Unit: 29
22. The Periodic Table  
Chapters: 26, 33 & 34  
Unit: 29
23. Chemical Bonding  
Chapters: 27, 28 & 29  
Unit: 29
24. Metals and Non-Metals  
Experiment: To show that water and oxygen are needed for rusting  
Units: 14 & 36
25. Fuels  
Unit: 23
26. Acids and Bases  
Experiment: To test a variety of materials to show their pH.  
Experiment: To carry out a titration and produce sodium chloride.  
Chapter: 30  
Units: 11 & 33
27. The Atmosphere  
Experiment: To measure the percentage of oxygen in the air.  
Experiment: To show there is carbon dioxide and water vapour in air  
Experiment: To make Oxygen gas  
Experiment: To make Carbon dioxide gas  
Experiment: To make Hydrogen gas  
Chapter: 31  
Unit: 20
28. Water  
Experiment: To show that water contains dissolved solids  
Chapter: 32  
Unit: 17

29. Water Hardness

Experiment: To test water samples for hardness.

Chapter: 32

Unit: 17

30. Plastics

Chapter: 35

Unit: 23

Physics

31. Measurement

Chapter: 36

Unit: 2

32. Density and Flotation

Experiment: To find the density of solids and liquids

Chapter: 39

Unit: 30

33. Motion

Chapter: 38

Unit: 30

34. Force

Experiment: To demonstrate Hooke's Law

Chapters: 40 & 41

Unit: 7

35. Moments, Levers and Centre of Gravity

Chapter: 42

Unit: 30

36. Pressure

Chapter: 43

Unit: 30

37. Work, Power and Energy

Experiment: To convert energy from one type to another

Chapter: 37

Units: 5 & 30

38. Heat

Experiment: To investigate conduction, convection and radiation

Experiment: To show expansion and contraction of solids liquids and gases

Chapters: 44 & 45

Units: 13 & 19

39. Light

Experiment: To show that light travels in straight lines

Experiment: To demonstrate reflection and show how a periscope works

Chapter: 46

Unit: 24

40. Sound

Chapter: 47

Unit: 24

41. Magnetism

Experiment: To plot the magnetic field of a bar magnet

Chapter: 48

Unit: 21

42. Static and Current Electricity

Chapters: 49 & 50

Unit: 21

43. Uses and Effects of Electricity

Experiment: To investigate conductors and insulators

Chapter: 51

Unit: 21

44. Electronics

Experiment: To measure voltage and current and prove Ohm's Law

Chapter: 52

Units: 25 & 35