

Contents of Year 9 Practical Workbook

Note: It is assumed that safety glasses are required for every lesson



Pg/s	Lesson	Extras Required
4	1. Reaction Time	30 cm ruler and a friend!
5	2. Sensitivity	A friend!
6	3. Response to Stimuli	A mobile phone (with light)
7-8	4. Reproduction of Flowering Plants	2 x AA batteries, flower from the garden
9	5. Strawberry DNA	Strawberries, ziplock bag, detergent, salt, methylated spirits
10-11	6. Chemistry Equipment and Safety	None
12	7. Lighting and Using a Match Safely	Redhead matches, coloured pencils
13	8. Combustion Chain Reaction	Lump of plasticene, matches
14	9. Observations of a Candle	Tealight candle
15	10. A Burning Candle – Combustion	Tealight candle, matches
16	11. Combustion is Fascinating	Tealight candle, matches, glass vase, bowl
17	12. Combustion Reaction	Tealight candle, matches, ceramic plate
18	13. Combustion Energy of a Match	Matches, tiny teddy cookie
19	14. The Carbon Cycle	Tealight candle, straw, 2x1.25 litre PET plastic bottles, bicarb soda, vinegar, clingwrap, 2 x elastic bands
20	15. Observing Photosynthesis	Hole punch, baby spinach leaves, bicarbonate of soda, detergent
21	16. Heat Transfer – Conduction	Tealight candle, matches, mobile phone
22	17. Heat Transfer – Convection, Radiation	Tealight candles, matches, plasticene, tiny marshmallows, bamboo skewers
23	18. Energy	2xAA batteries
24	19. Energy Transfers	2xAA batteries, 2 x 30cm rulers
25	20. Energy Transformations	2 x AA batteries
26-28	21. Rocket Balloon Experiment	Fishing line, sticky tape, mobile phone
29	22. Series Circuit and Ohm's Law	2 x AA batteries
30	23. Waves	30cm ruler, bowl
31	24. Chemical Reactions	Tealight candle, matches, sugar, bicarbonate soda, flour
32-33	25. More Chemical Reactions	Matches
34	26. Milk, Vinegar and Temperature	Tealight candle, matches, vinegar, full cream milk

Note: These lessons are tightly mapped to Year 9 of V9.0 of the Australian Curriculum