



Year 10 Combined Science Manifest
40 minutes
You will need a calculator, ruler, pencil.

Biology	R	A	G
Plant tissues- leaf structure, role of stomata in photosynthesis			
Plant organ systems: transpiration, xylem, phloem			
Communicable diseases			
Viral diseases: measles, HIV, TMV,			
Bacterial diseases: salmonella, gonorrhoea			
Fungal diseases: rose black spot			
Protist diseases: malaria			
Human defence systems			
Vaccination			
Antibiotics & painkillers			
Development and discovery of drugs			
Physics	R	A	G
Standard circuit symbols			
Electrical charge and current			
Current potential difference & resistance			
Resistors: ohmic resistor, filament bulb, diode, LDR, thermistor			
Series and parallel circuits: resistance in both series and parallel circuits			

Chemistry	R	A	G
Conservation of mass			
Relative formula mass			
Mass changes when the product or reactant is a gas			
Uncertainty			
Moles			
Amounts of substance in equations			
Using moles to balance equations			
Limiting reactants			
Concentration of solutions			
Reactions of acids: metals, hydroxides, oxides, carbonates			
Required practical: making a soluble salt from an insoluble base.			