

AQA GCSE required practicals checklist

Tick a box only when you can do it from memory. 28 practicals: 21 in Combined Science, 7 Separate science only.

1. I can state the aim 4. I know the risks and safety	2. I can name the variables 5. I can explain the results and calculation	3. I can describe the method 6. I know the common exam mistake				
Practical	1	2	3	4	5	6
Biology (8461)						
1. Use a light microscope to observe plant and animal cells Trilogy RP 1	☐	☐	☐	☐	☐	☐
2. Investigate antibiotics or antiseptics Separate Biology only	☐	☐	☐	☐	☐	☐
3. Investigate osmosis in plant tissue Trilogy RP 2	☐	☐	☐	☐	☐	☐
4. Use qualitative tests to identify food groups Trilogy RP 3	☐	☐	☐	☐	☐	☐
5. Investigate the effect of pH on amylase Trilogy RP 4	☐	☐	☐	☐	☐	☐
6. Investigate light intensity and photosynthesis rate Trilogy RP 5	☐	☐	☐	☐	☐	☐
7. Investigate how a factor affects human reaction time Trilogy RP 6	☐	☐	☐	☐	☐	☐
8. Investigate how light or gravity affects the growth of seedlings Separate Biology only	☐	☐	☐	☐	☐	☐
9. Investigate population size and species distribution in a habitat Trilogy RP 7	☐	☐	☐	☐	☐	☐
10. Investigate temperature and fresh-milk decay Separate Biology only	☐	☐	☐	☐	☐	☐
Chemistry (8462)						
1. Prepare a pure, dry soluble salt Trilogy RP 8	☐	☐	☐	☐	☐	☐
2. Titrate a strong acid and strong alkali Separate Chemistry only	☐	☐	☐	☐	☐	☐
3. Identify products of aqueous electrolysis Trilogy RP 9	☐	☐	☐	☐	☐	☐
4. Investigate how different variables affect the temperature change when solutions react Trilogy RP 10	☐	☐	☐	☐	☐	☐
5. Investigate how concentration affects reaction rate Trilogy RP 11	☐	☐	☐	☐	☐	☐
6. Separate and identify coloured substances by paper chromatography Trilogy RP 12	☐	☐	☐	☐	☐	☐
7. Identify ions in unknown single ionic compounds Separate Chemistry only	☐	☐	☐	☐	☐	☐
8. Analyse and purify water samples Trilogy RP 13	☐	☐	☐	☐	☐	☐
Physics (8463)						
1. Determine the specific heat capacity of a material Trilogy RP 14	☐	☐	☐	☐	☐	☐
2. Investigate thermal insulation Separate Physics only	☐	☐	☐	☐	☐	☐
3. Investigate factors affecting resistance Trilogy RP 15	☐	☐	☐	☐	☐	☐
4. Investigate I-V characteristics Trilogy RP 16	☐	☐	☐	☐	☐	☐
5. Determine densities of solids and liquids Trilogy RP 17	☐	☐	☐	☐	☐	☐
6. Investigate force and extension of a spring Trilogy RP 18	☐	☐	☐	☐	☐	☐
7. Investigate force, mass and acceleration Trilogy RP 19	☐	☐	☐	☐	☐	☐
8. Measure frequency, wavelength and wave speed Trilogy RP 20	☐	☐	☐	☐	☐	☐
9. Investigate reflection and refraction of light Separate Physics only	☐	☐	☐	☐	☐	☐
10. Investigate infrared absorption and emission by surfaces Trilogy RP 21	☐	☐	☐	☐	☐	☐

Numbered as in the AQA Biology (8461), Chemistry (8462) and Physics (8463) specifications; Trilogy numbers from Combined Science: Trilogy (8464). Not affiliated with or endorsed by AQA. A revision checklist, not a laboratory instruction sheet. One-page summaries of every practical: www.examva.com/gcse-required-practicals. Online checklist: www.examva.com/gcse-required-practicals/checklist.