QUICK LINKS TO TECHNICAL RESOURCES:

Major technical resources:

Chemical Management Handbook for Australian Schools - Edition 3

GUIDELINES for best practice for microbiology in Australian schools

GUIDELINES for the design and planning of secondary school science facilities in Australian schools

List of recommended chemicals for science in Australian schools*****

Risk Assessment Template

School science suppliers*****

*Please ensure that you are accessing the latest version

Standard Operating Procedures (SOPs)

SOP Template

Customisable risk assessments are available for all SOPs

Chemical

SOP: Demonstrating the flame test using a PET bottle

SOP: Demonstrating the reaction of alkali metals lithium and sodium with water

SOP: Diluting concentrated acetic acid

SOP: Diluting concentrated hydrochloric acid

SOP: Diluting concentrated nitric acid

SOP: Diluting concentrated sulphuric acid

SOP: Handling dry ice

SOP: Handling liquid nitrogen

SOP: Preparing sodium hydroxide solutions

SOP: The Thermite Reaction

Biological Sciences

SOP: Performing a brain dissection

SOP: Performing a chicken wing dissection

SOP: Performing a heart dissection

SOP: Performing a kidney dissection.

SOP: Performing a lung dissection

SOP: Performing a rat dissection

SOP: Performing an eye dissection

SOP: Physarum polycephalum (slime mould) care and use

SOP: Preparing agar plates

SOP: Preparing animal and plant cell slides

SOP: Use and care of the compound light microscope

Physical Sciences

SOP: Demonstrating the Van de Graaff generator

SOP: Handling sealed radioactive sources

SOP: Use of lasers in schools Parts 1,2 and 3

General

SOP: Fire blankets

SOP: Fire extinguishers

SOP: Gas cylinders in school science areas

SOP: Operating a pressure cooker and autoclave

ASSIST information sheets (AIS) and Laboratory notes

General

AIS: 3D printer safety in schools

AIS: Asbestos minerals in schools

AIS: Decontaminating microbiological equipment

AIS: Footwear in a school science laboratory

AIS: Guidelines for ordering, distribution and return of equipment for practical activities

AIS: Lab glass and porcelain disposal

AIS: Labels for school science chemicals

AIS: Latex allergies in schools

AIS: Microscope choices in schools

AIS: Plant and equipment maintenance and servicing schedule

AIS: Portable Bunsen burners

AIS: Preparing sterile equipment for microbiology

AIS: Recirculating fume cabinets

AIS: Refrigerators and freezers in science

AIS: Risk Management and risk assessment

AIS: Safe handling and use of potting mix

AIS: School science area security

AIS: School science laboratory gas fitting requirements

AIS: Sterilising agar

AIS: Use of stepladders in school science areas

Laboratory Notes

Food tests

Generation and collection of nitrogen dioxide (NO_2) gas for equilibrium demonstrations

Phenolphthalein/NaOH agar cube experiment

Preparing chemical solutions