



Entry Level Science

Practical Activity

Learner Record Sheet

You will be given the opportunity to carry out a minimum of 16 skill areas for entry level science.

Name	<input type="text"/>
Class	<input type="text"/>
Teacher	<input type="text"/>
School	<input type="text"/>

List of apparatus and techniques

The following list includes opportunities for choice and use of appropriate laboratory apparatus for a variety of experimental problem-solving and/or enquiry based activities.

Safety is an overriding requirement for all practical work. Centres are responsible for ensuring appropriate safety procedures are followed whenever their students complete practical work.

Use and production of appropriate scientific diagrams to set up and record apparatus and procedures used in practical work is common to all science subjects and should be included wherever appropriate.

U1 Use of appropriate apparatus to make and record a range of measurements accurately, including:		✓
i	length	<input type="checkbox"/>
ii	area	<input type="checkbox"/>
iii	mass	<input type="checkbox"/>
iv	time	<input type="checkbox"/>
v	temperature	<input type="checkbox"/>
vi	volume of liquids	<input type="checkbox"/>
vii	volume of gases	<input type="checkbox"/>
viii	volume	<input type="checkbox"/>
ix	pH	<input type="checkbox"/>

The learner/I have completed this section

U2 Safe use of appropriate heating devices and techniques, including use of:		✓
i	a Bunsen burner	<input type="checkbox"/>
ii	a water bath OR an electric heater	<input type="checkbox"/>

The learner/I have completed this section

U3 Obtain and record the results of a practical activity in an appropriate format	✓
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The learner/I have completed this section

U4 Following a plan	✓
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The learner/I have completed this section

B1 Use of appropriate apparatus to observe and measure a biological change or process:		✓
i	observation of biological changes and/or processes	<input type="checkbox"/>
ii	measurement of biological changes and/or processes	<input type="checkbox"/>

The learner/I have completed this section

B2 Measurement of rates of reaction in biology by a variety of methods including:		✓
i	production of gas	<input type="checkbox"/>
ii	uptake of water	<input type="checkbox"/>
iii	colour change of indicator	<input type="checkbox"/>

The learner/I have completed this section

B3 Use of appropriate sampling techniques to investigate the distribution and abundance of organisms in an ecosystem via direct use in the field		✓
		<input type="checkbox"/>

The learner/I have completed this section

B4 Use of appropriate apparatus, and techniques to magnify a biological sample:		✓
i	make observations of a magnified biological specimens	<input type="checkbox"/>
ii	produce a labelled scientific drawing of the magnified image	<input type="checkbox"/>

The learner/I have completed this section

C1 Use of appropriate apparatus and techniques for conducting and monitoring chemical reactions

✓

The learner/I have completed this section

C2 Safe use of a range of equipment to purify and/or separate chemical mixtures, including:

✓

i	evaporation	<input type="checkbox"/>
ii	filtration	<input type="checkbox"/>
iii	crystallisation	<input type="checkbox"/>
iv	chromatography	<input type="checkbox"/>
v	distillation	<input type="checkbox"/>

The learner/I have completed this section

C3 Safe use and careful handling of gases, liquids and solids, including:

✓

i	careful mixing of reagents under controlled conditions	<input type="checkbox"/>
ii	using appropriate apparatus to explore chemical changes and/or products	<input type="checkbox"/>

The learner/I have completed this section

C4 Use of appropriate apparatus and techniques to:

✓

i	set up and use electrochemical cells	<input type="checkbox"/>
ii	draw electrochemical cells	<input type="checkbox"/>

The learner/I have completed this section

P1	Use of appropriate apparatus to measure and observe the effects of forces including the extension of springs.	✓ <input type="checkbox"/>
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The learner/I have completed this section

P2	Use of appropriate apparatus and techniques for measuring motion, including determination of:	✓ <input type="checkbox"/>
i	speed	<input type="checkbox"/>
ii	rate of change of speed (acceleration/deceleration)	<input type="checkbox"/>

The learner/I have completed this section

P3	Safe use of appropriate apparatus in a range of contexts to measure:	✓ <input type="checkbox"/>
i	energy changes/transfers	<input type="checkbox"/>
ii	associated values such as work done	<input type="checkbox"/>

The learner/I have completed this section

P4	Use of appropriate apparatus to measure:	✓ <input type="checkbox"/>
i	current	<input type="checkbox"/>
ii	potential difference	<input type="checkbox"/>
iii	resistance	<input type="checkbox"/>

Please turn over

Practical activity record sheet

Record the practical activities you have carried out below. If additional pages are required a copy of this page can be attached.

No.	Date	Practical done
1		
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