

MARKING GUIDE PRACTICAL TASK

LIFE SCIENCES

GRADE 11 TERM 3

QUESTION 1

1.1

a)	Glass tube	trachea	(1)
b)	Balloon	lung	(1)
c)	Bell jar	chest(thoracic)cavity	(1)
d)	Rubber sheet	diaphragm✓	(1)

1.2 Active

(1)

1.3 Decreases

(10)

- 1 4 Increases V
- 1.5 The bell jar does not move but the lungs do ✓. Model demonstrates one lung where humans have 2 lungs ✓.

QUESTION 2

- 2.1 To determine the effect of exercise \(\sigma\) on the heart rate \(\sigma\) and breathing rate \(\sigma\) of 2 learners. (3)
- 2.2 Both their heart rates increased to over 100 bpm <
- 2.3 Both learners breathing rates increased when running up the stairs *

2.4

Appropriate title	~	
Correct type of graph		
Appropriate y-axis heading and scale	~	
Correct labelling of columns	11	
Key: learner 1 / learner 2	~	

Marking Guideline:

Grade 1paper 3 Life Science Practical

Minjie Lin

Grade 1paper 3 Life Science Practical:

Resources for Teaching Elementary School Science National Science Resources Center of the National Academy of Sciences and the Smithsonian Institution, 1996-03-28 What activities might a teacher use to help children explore the life cycle of butterflies What does a science teacher need to conduct a leaf safari for students Where can children safely enjoy hands on experience with life in an estuary Selecting resources to teach elementary school science can be confusing and difficult but few decisions have greater impact on the effectiveness of science teaching Educators will find a wealth of information and expert guidance to meet this need in Resources for Teaching Elementary School Science A completely revised edition of the best selling resource guide Science for Children Resources for Teachers this new book is an annotated quide to hands on inquiry centered curriculum materials and sources of help in teaching science from kindergarten through sixth grade Companion volumes for middle and high school are planned The guide annotates about 350 curriculum packages describing the activities involved and what students learn Each annotation lists recommended grade levels accompanying materials and kits or suggested equipment and ordering information These 400 entries were reviewed by both educators and scientists to ensure that they are accurate and current and offer students the opportunity to Ask questions and find their own answers Experiment productively Develop patience persistence and confidence in their own ability to solve real problems The entries in the curriculum section are grouped by scientific area Life Science Earth Science Physical Science and Multidisciplinary and Applied Science and by type core materials supplementary materials and science activity books Additionally a section of references for teachers provides annotated listings of books about science and teaching directories and guides to science trade books and magazines that will help teachers enhance their students science education Resources for Teaching Elementary School Science also lists by region and state about 600 science centers museums and zoos where teachers can take students for interactive science experiences Annotations highlight almost 300 facilities that make significant efforts to help teachers Another section describes more than 100 organizations from which teachers can obtain more resources And a section on publishers and suppliers give names and addresses of sources for materials The guide will be invaluable to teachers principals administrators teacher trainers science curriculum specialists and advocates of hands on science teaching and it will be of interest to parent teacher organizations and parents **Resources in Education** ,2001-04

Birth Of My First Patent R. Easwaran,2022-08-13 The author is the inventor of an apparatus for the helicopter He holds an InternationalPatent Application and a Patent Grant Certificate from the Indian Patent Office The book describes how a humble hobby and inclination to do simple school projects helped the author get a Patent Grant for a novel invention Youngsters are the country s future This book attempts to motivate all its readers to discover the potential within themselves It is a good mixture of technical sociological and philosophical insight This book is certain to be an eye opener for youngsters parents and educationists **Proceedings of the International Conference on Education Research** Reza Hosseini,

Research in Education ,1970 The School Arts Magazine ,1914 Journal - Department of Agriculture and Fisheries
Ireland. Department of Agriculture and Fisheries,1903 Journal of Education ,1888 The Education Gazette of the
Province of the Cape of Good Hope Cape of Good Hope (South Africa). Education Department,1917 Digest ,1904

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