

SNORKELLING WORKBOOK 6TH EDITION

Snorkelling worksheet syllabus match – Marine Research Skills

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Subject matter and suggested learning experiences

Key concepts / elaboration	Learning experiences	Page	KU	IA	EC
MS1.1 Regulatory requirements and procedures are essential for dealing with hazards, accidents and emergencies.	Identify statutory requirements from Qld Government Open Water Snorkelling CARA and Code of Practice. Complete medical forms, emergency drills and evaluate procedures.	63-73 78-79	✓	✓	✓
MS1.2 Risk assessments are carried out before conducting investigations in the laboratory and the field.	Distinguish between hazards, risks and control measures giving examples of each. Evaluate various types of snorkelling plans including a risk assessment on a research project.	63-73	✓	✓	✓
MS1.3 Water safety skills and first aid procedures are important when undertaking marine activities.	Describe the DRSABDC first aid sequence with snorkelling as an example. Identify rescue methods. Describe common first aid procedures relating to snorkelling, eg, cramps, cuts, burns, heat exhaustion, salt water aspiration.	38-53 68	✓	✓	
MS1.4 Dangerous marine organisms are identified and administration of first aid treatment is conveyed.	Identify potentially dangerous marine creatures. Describe and evaluate first aid treatments for shock, bites, cuts, stings, burns, hypothermia and envenomation.	54-62	✓	✓	✓
MS1.5 Weather forecasts and synoptic charts are interpreted prior to and during investigations with decisions being made according to changing weather conditions.	Describe various control measures for hazards caused by changing weather conditions. Describe procedures used in a school emergency plan.	63-65	✓	✓	
MS1.6 Safety equipment relevant to marine activities is used and maintained.	Identify safety equipment and describe procedures used in maintenance for safe use, including oxygen.	63-68	✓	✓	
MS 2.4 Snorkelling equipment and practices are used to observe or survey underwater ecosystems, including conducting transect studies.	Identify and describe effective storage and safe use of various types of masks, snorkels, fins, protective suits, weight belts, gloves, knives, emergency communications and specialised science equipment for transects and photography. Describe methods used in underwater data collection and analysis by observation and transect.	32-37	✓	✓	
MS 2.5 Underwater physics and physiology influence underwater activities and are an important consideration when snorkelling.	Define and describe the effects of snorkelling on the eye, ear, sinuses and skin as well as the effects on the respiratory, muscular and circulation systems including shallow water blackout, skin cancers and ear infections. Make predictions on physiology based on scientific principles and laws (eg Pressure, Buoyancy, Gas Laws, Sound in water).	3-26	✓	✓	✓

Notes: Assessment is based on the words used over in assessment worksheets. Its up to the school to set the emphasis on assessment.

SNORKELLING WORKSHEET VERBS

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Worksheet	Title	Verbs used in questions
1	Snorkelling and the eye	Explain, describe, compare
2	Respiration and snorkelling	Complete, distinguish, explain, research
3	The sinuses	Describe, explain, list, suggest, discuss, compare
4	Circulation and temperature control	Describe, explain, suggest discuss, compare
5	Effects of pressure	Calculate, recall, explain, describe, predict
6	Boyle's law	Describe, explain, derive, calculate
7	Snorkelling and the ear	Explain, list, argue, evaluate
8	Pressure and sound	Describe, explain, list, identify
9	Buoyancy and snorkelling	Recall, explain, calculate, decide, estimate
10	Skin cancer	Research, identify, distinguish, decide
11	Equipment use	Compare, evaluate, analyse, list, critically evaluate, suggest
12	Equipment care	Design, complete
13	Aquatic materials and the sea	Experiment, analyse
14	Entry and exit	List, describe, discuss, suggest
15	Finning	Describe, explain, suggest, predict, draw
16	Duck diving	Describe explain, argue the case for
17	Clearing your mask and snorkel	Explain, describe, list
18	Water safety skills (DRSABCD)	Recall, explain, complete
19	What if?	Write the steps, decide, research, recall
20	Dangerous creature ID	Identify, describe
21	Snorkelling first aid	List, explain, describe
22	Reducing snorkelling risks	Describe, identify, justify
23	Safety considerations	Evaluate, justify, describe
24	Emergency planning	Draw, design, draw a flow chart
25	Research project risk assessment	Identify, justify
26	Pool science activities	Describe, devise