

1. SCIENCE & RESEARCH

PROGRAMS IN QATAR

An outdoor educational programs
booklet for schools & colleges



PLANT AREA COVERAGE USING QUADRATS & TRANSECT LINES

THIS PROGRAM IS GEARED TO GCSE, AP ENVIRONMENTAL SCIENCE, GROUP 4 PROJECTS AND IB ENVIRONMENTAL SCIENCE AND BIOLOGY.

STUDENTS WILL USE QUADRATS TO EXAMINE PLANT COVER IN THE PURPLE ISLAND AREA. STUDENTS WILL BE EXPOSED TO SAMPLING PROCEDURES TO THE IDEA OF A BASELINE STUDY, ENVIRONMENTAL IMPACTS AND ENVIRONMENTAL MANAGEMENT. STUDENTS WILL THEN CONDUCT A TRANSECT LINE EXAMINING WATER CONTENT OF SOIL, PLANT TYPE AND COVER. THE TRANSECT LINE WILL BE FROM 15 TO 25 METER; AT EACH 5 METER INTERVAL, STUDENTS WILL TAKE SOIL SAMPLES, PICTURES OF A QUADRANT, AND WILL USE THE PICTURES AND SOIL SAMPLES TO GATHER DATA LOOKING AT HOW WATER CONTENT OF THE SOIL AFFECTS THE TYPE OF PLANTS GROWING IN THE AREA.

STUDENTS ALSO HAVE THE OPTION; DEPENDING ON THE TEACHER; STUDENTS CAN GO ON A HIKE OR A KAYAKING EXCURSION IN THE AREA IF TIME ALLOWS.



THE PURPLE ISLAND



5 HOURS



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GRADES 8 TO 12

FOCUS AREA

UPPER LEVEL BIOLOGY AND ENVIRONMENTAL STUDIES | ADVENTURE; IF KAYAKING IS INCLUDED | TEAM BUILDING

