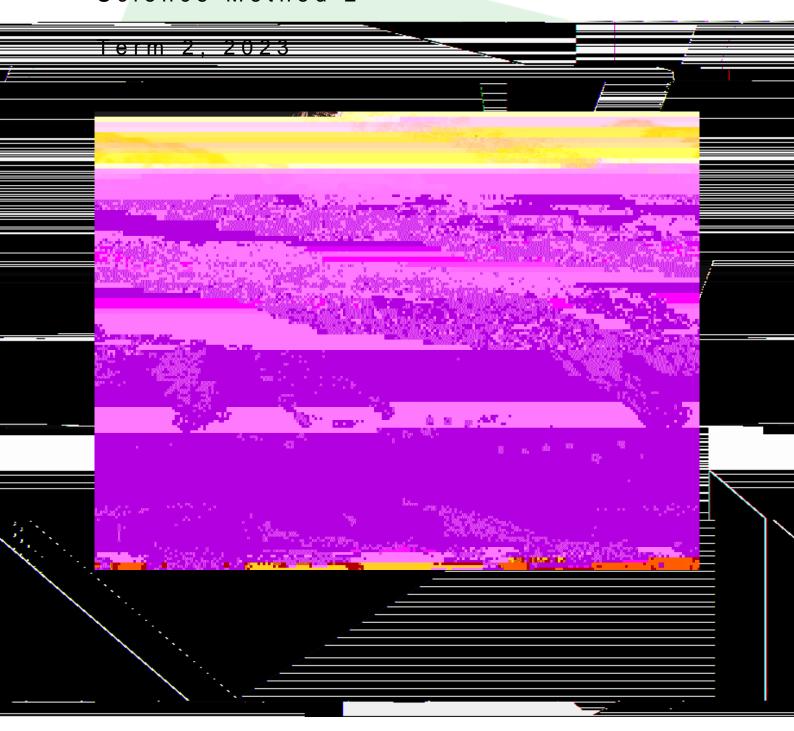


EDST6952

Science Method 2



Acknowledgement of Country

UNSW Arts, Design and Architecture Kensington and Paddington campulands. We pay our respects to the Bidjigal and Gadigal peoples who a We acknowledge the Aboriginal and Torres Strait Islander peoples, the winds and waters we all now share, and pay respect to their unique valenduring cultures which deepen and enrich the life of our nation and of

Image courtesy of the Office of the Pro ViloNeS (Whanlonedlilogoernlonudsigsetmontes)

Course Details

Units of Credit 6

Workload

150 hours including class contact hours, readings, class preparation, etc.

Summary of the Course

This is a hybrid course. It is available to both undergraduate and post content, delivery and assessment will be identical for both groups of s

This course is designed to continue the development of Initial Teache pedagogies for teaching Stage 4 and 5 Science, as well as offering an practice of science. Initial Teacher Education students will develop sk assessing, contextualising science, managing practical work in scienc resources into lessons. Important issues such as student prior learnin are also considered. Students will critically evaluate the features of ecourse focuses on the requirements and philosophy of the Stage 4 and

Course Learning Outcomes

- 1.Identify essential elements of the NESA Science syllabus docume students as they transition between stages
- 2.Use strong knowledge of subject content to plan and evaluate conchallenging lessons, lesson sequences and teaching programs wh
- 3.Set achievable learning outcomes to match content, teaching strategies of assessment for a unit of work in science
- 4. Provide clear directions to organise and support prepared activiti
- 5.Assess and report on student learning in science to all key stake
- 6.Identify the characteristics of an effective science teacher and the practice in teaching, especially the attributes of Graduate teache

Australian Professional Standards for Teachers

Standard		Assessme	nt/s
1.1.1	Demonstrate knowledge and understar	ntaing of ph	ysical,
	social, and intellectual development a	nd charac	eristics of
	students and how these may affect le	arning.	
1.2.1	Demonstrate knowledge and understar	nting of re	search into
	how students learn and the implicatio	ns for tead	hing.
1.3.1	Demonstrate knowledge of teaching s	r1a,t&igies tl	nat are
	responsive to the learning strengths a	and needs	of students
	from diverse linguistics, cultural, reli	gious, and	
	socioeconomic backgrounds.		
1.5.1	Demonstrate knowledge and understar	ntdin2g of st	ategies for
	differentiating teaching to meet the s	pecific lea	rning needs
	of students across the full range of a	bilities.	
2.1.1	Demonstrate knowledge and understar	ndlin2a of th	e

	concepts, substance and structure of the content and
	teaching strategies of the teaching area.
2.2.1	Organise content into an effective leadhild and teaching
	s e quence.
2.3.1	Use curriculum, assessment and reporting knowledge to
	design learning sequences and lesson plans.
2.5.1	Know and understand literacy and nume,ra2cy teaching
	strategies and their application in teaching areas.
2.6.1	Implement teaching strategies for usin2g ICT to expand
	curriculum learning opportunities for students.
3.1.1	Set learning goals that provide achievable challenges for
	students of varying abilities and characteristics.
3.2.1	Plan lesson sequences using knowledg1e, 62f student
	learning, content, and effective teaching strategies.
3.3.1	Include a range of teaching strategies*
3.4.1	Demonstrate knowledge of a range of resources, including
	ICT, that engage students in their learning.
3.6.1	Demonstrate broad knowledge of strategies that can be
	used to evaluate teaching programs to improve student
	learning.
4.2.1	Demonstrate the capacity to organise tlassroom activities
	and provide clear directions.
5.1.1	Demonstrate understanding of assess m2e, n3t strategies,
	including informal and formal, diagnostic, formative, and
	summative approaches to assess student learning.
5.2.1	Demonstrate an understanding of the Burpose of providing
	timely and appropriate feedback to students about their
	learning.
5.3.1	Demonstrate understanding of assess male n3 mode ration and
	its application to support consistent and comparable
	judgements of student learning.
5.4.1	Demonstrate the capacity to interpret 2stu3dent assessment
	data to evaluate student learning and modify teaching
	practice.
5.5.1	Demonstrate understanding of a range 3 of strategies for
	reporting to students and parents/carers and the purpose of
	keeping accurate and reliable records of student
	achievement.
6.3.1	Seek and apply constructive feedback from supervisors and
	teachers to improve teaching practices.
7.1.1	Understand and apply the key princip &s described in codes
	of ethics and conduct for the teaching profession.

Covered during the course

National Priority Area Elaborations

	Priority area		Assessment/
Α	Aboriginal and Torres Strait I	s5ia, m8der	E2ducation.
С	Information and Communicatio	n4 -15 e, c8h,n	12 2ogies.
D	Literacy and Numeracy.	1, 4-5,	1, 2, 3
		7-16, 1	9

		17-18	
			*
Е	Students with Special Educati	o2n,a 6-1 √1e	e1d,s2,3
F	Teaching Students from Non-E Backgrounds.	5 gl 7 sh93	51p,e 22 king ∗

Covered during the course

Teaching Strategies

Rat onale for the inclusion of content and teaching approach

Lectures, tutorials and assignments will cover a variety of approaches assessing in the classroom. Emphasis will be placed on the relationsh of science, the role and value of science in society and science pedag strategies that can promote student engagement and achievement in s

Student-centred activities will form the basis of the course. These act discipline knowledge of the students and will allow them to engage in experiences that mirror those they will be expected to design for the will later teachose 0476 tie9s wilot.800000 w 2 J 0 j [] 0. nts tuesiarnithey

Teaching strategies



c. how they can effectively close the gap between a. and b.

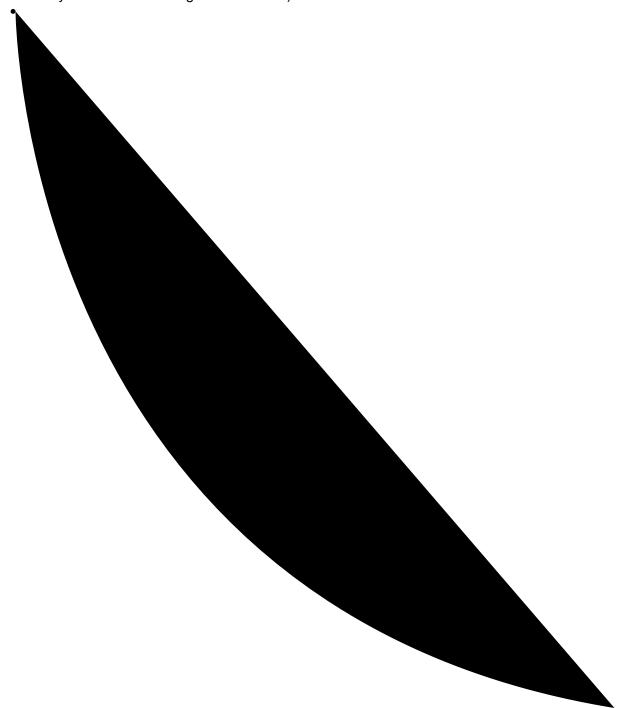
Include all activities and resources to support student learning. There activity/resource and one numeracy/ICT resource.

Task 3: Common Assessment Module

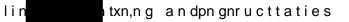
There are two parts to this task:

Part 1: Common Assessment Module (a separate module to be complete course). It will be available to work on from Week 1 of UNSW Term 2.

- You will gather evidence from a variety of sources about learning information to improve learning and teaching.
- 470 a ut 1 Swill III Proteins ent sferry hotelr bi.fnef ctd0000 (a et ikt if o ethoto out theorem itrogaccess the Modu There will be drop-in sessions in Weeks 8-13. This is the same ti July to 25th August 2023).



Specific Criteria	(-)	> (+)
 Organises and structures scope and seq NESA guidelines and requirements Follows NESA assessment guidelines 	uence	according to
Pre fing to appropriate tions	oriate	academic and

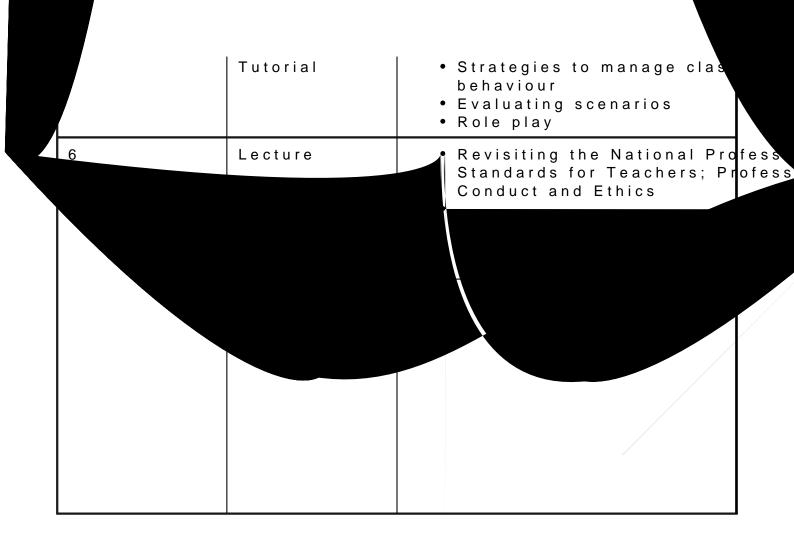


RUBRIC/FEEDBACK SHEET EDST6952 SCIENCE METHOD 2 UNSW SCHOOL OF EDUCATION

Assessment Task 2: Unit of work

	Specific Criteria	(-)		> (+))
	Understanding of the question or issue and tinvolved	he k	еу	onc	e p t s	
1	 Demonstrates knowledge of selected Sta syllabus outcomes 	ge 4	1 co	urse	and	l
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Resources

Prescribed Resources

Required readings

Each student is required to obtain from the NESA website the followin

• Stage 4/5 Science Syllabus

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