UNIT OUTLINE FOR EDP151.9 Primary Mathematics

Name of Unit 1 (Unit Code 1)

Primary Mathematics (EDP151.9)

SECTION 1 – GENERAL INFORMATION

Administrative details

Associated higher education awards	Duration	Level (for example, introductory, intermediate, advanced level, 1st year, 2nd year, 3rd year)	Unit Coordinator (incl. academic title)
Master of Teaching – Primary	One semester	1 st year	Head of Program

Core or elective unit

Indicate if the unit is a

 \boxtimes core unit

elective unit

other (please specify below):

Unit weighting

Using the table below, indicate the credit point weighting of this unit and the credit point total for the course of study (for example, 10 credit points for the unit and 320 credit points for the course of study).

Unit credit points	Total course credit points
6 credit points	96 credit points

Student workload

Using the table below, indicate the expected student workload per week for this unit.

No. timetabled hours per week	No. personal study hours per week	Total workload hours per week
3	6	9

For those students requiring additional English language support, how many additional hours per week is it expected that they will undertake?

Additional English language support: __0___ hours per week

Pre-requisites and co-requisites

Are students required have undertaken a prerequisite or co-requisite unit for this unit?

🖂 Yes 📃 No

If YES, provide details of the prerequisite or co-requisite requirements below.

Co-requisite: EDP141.9 Pedagogy A Professional Concepts and Curriculum



STUDY AT

SECTION 2 – ACADEMIC DETAILS

Brief description of the content of the unit

This unit introduces the pre-service teacher to research based theories and teaching methodologies which lead to the development of mathematical competence in learners. It examines engaging approaches, strategies, and resources for the teaching and learning of the current Primary Mathematics curriculum based on the Australian Curriculum.

Learning outcomes for the unit

- 1. Critically evaluate traditional and research-based approaches to the teaching and learning of Mathematics
- 2. Analyse the Australian Curriculum: Mathematics and use it to plan effective learning.
- 3. Justify the significance of conceptual understanding in the teaching and learning of Mathematics
- 4. Identify, locate and evaluate resources for teaching and learning in Mathematics for effective student learning and engagement.

Assessment tasks						
Туре	Learning Outcome/s assessed	When assessed – year, session and week	Weighting			
Academic paper Based on current research, explain how mathematics is best taught and learnt and give examples (2400 words)	1,2,3	S1 Week 6	40%			
Curriculum planning resource A collection of resource cards for a range of activities showing curriculum content, teaching and assessment strategies, critical evaluations and references for further resources (3600 words)	1,2,3,4	S1 Week 14	60%			



2.1 Prescribed and recommended readings

Provide below, in formal reference format, a list of the prescribed and recommended readings for the unit.

Prescribed reading:

Jorgensen, R., & Dole, S. (2020). Teaching mathematics in Primary School. (3rd ed.). Sydney: Allen & Unwin.

Recommended reading:

E-books

Rickard, C. (2013), Essential Primary Mathematics. U.K. Open University

Hard Copy

Bobis, J., Mulligan, J., & Lowrie, T. (2013). *Mathematics for children: Challenging children to think mathematically.* (4th ed.). Australia: Pearson Education.

Booker, George, Bond, Denise, Sparrow, Len, & Swan, Paul. (2010). *Teaching primary mathematics* (Fourth ed.). Frenchs Forest, N.S.W.: Pearson Australia.

Haylock, D. (2010). Mathematics explained for primary teachers (4th ed.). London: Sage Publications

Reys, R. E. et al. *Helping Children Learn Mathematics*. 1st Australian edition. Milton, Qld: John Wiley & Sons Australia, (2012).

Siemon, D. E. (Dianne Elizabeth) et al. (2015.) *Teaching Mathematics: Foundations to Middle Years*. Second edition. South Melbourne, Victoria: Oxford University Press,

Van de Walle, John, A.; Karp, Karen, S. (2019). *Elementary and Middle School Mathematics: Teaching Developmentally, Global Edition* (10th ed.). P&C Education

