

# Numeracy learning resources

## Supporting preservice teachers

Literacy and numeracy form the foundations students need for deep learning across the curriculum and the development of skills essential to everyday life.

These resources support preservice teachers with embedding numeracy into their teaching and learning.

### Literacy and numeracy webpages

The literacy and numeracy webpages contain information to support the teaching and learning of numeracy. The webpages include information on professional learning, resources, assessment opportunities and the HSC minimum standard.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy)



### Numeracy capability- NESA

Numeracy involves understanding and applying mathematical knowledge and skills in a wide range of contexts. The application of mathematics across the curriculum enriches the study of other learning areas and helps to develop a broader and deeper understanding of numeracy.

[curriculum.nsw.edu.au/about-the-curriculum/capabilities-and-priorities#numeracy](https://curriculum.nsw.edu.au/about-the-curriculum/capabilities-and-priorities#numeracy)



### National Numeracy Learning Progression

The Numeracy Learning Progression (NNLP) helps to ensure numeracy is taught explicitly in schools, and that the numeracy needs of all students can be addressed.

The numeracy progression describes common numeracy learning pathways for students from Kindergarten to Year 10.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/resources-for-schools/learning-progressions](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/resources-for-schools/learning-progressions)



**Related resource:**

[www.australiancurriculum.edu.au/resources/national-literacy-and-numeracy-learning-progressions/version-3-of-national-literacy-and-numeracy-learning-progressions](https://www.australiancurriculum.edu.au/resources/national-literacy-and-numeracy-learning-progressions/version-3-of-national-literacy-and-numeracy-learning-progressions)

## Numeracy guides

The Numeracy guides inform conversations about evidence-based numeracy instruction in all key learning areas across both primary and secondary school contexts. The guides (K-2 and Years 3-8) make connections between mathematics and numeracy, to support numeracy learning across the curriculum.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/resources-for-schools/guides/#Numeracy3](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/resources-for-schools/guides/#Numeracy3)



## Numeracy pathways

Professional Learning pathways support schools' priorities in numeracy according to the needs of teachers and students.

The primary numeracy pathways display an overview of the professional learning and resources available to support schools. The secondary numeracy pathways build upon professional learning completed during the whole school professional learning phase to support teachers with targeted numeracy professional learning opportunities.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/resources-for-schools/pathways](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/resources-for-schools/pathways)



## Lesson advice guides

Lesson advice guides provide teachers with guidance on developing students' numeracy skills.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/teaching-and-learning-resources/numeracy/numeracy-lesson-advice-guides](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/teaching-and-learning-resources/numeracy/numeracy-lesson-advice-guides)



## Teaching advice guides

Teaching advice guides ensure a consistent understanding of evidence-based instruction of the numeracy demands within key learning areas and support teachers to incorporate the effective teaching of numeracy. They build teacher capacity and understanding of fundamental numeracy skills evident in their syllabuses.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/teaching-and-learning-resources/numeracy/numeracy-teaching-advice-guides](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/teaching-and-learning-resources/numeracy/numeracy-teaching-advice-guides)



## Universal Resources Hub (URH)

Use these resources to support the integration of numeracy instruction into teaching and learning programs. The resources can be modified to meet individual needs.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/resources-for-schools/hub](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/resources-for-schools/hub)



## Numeracy professional learning

Professional learning resources are available to support teachers and school leadership teams in the teaching of numeracy.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/professional-learning](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/professional-learning)



## Interview for Student Reasoning (IfSR)

IfSR is a suite of teacher-led optional online numeracy assessments for K-10 students. Assessment items reflect current research and are evidence-based. Items link to resources to support students' progress in developing fundamental numeracy skills. The assessments are mapped to the NSW syllabus and National Numeracy Learning Progression.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/assessment-resources/ifsr](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/assessment-resources/ifsr)



## Stage based assessments

A series of assessments for teachers to use in classroom-based settings for individual, small groups, whole class or learning stage. There are pre and post assessments, short assessments and stage snapshots

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/assessment-resources/short-assessment](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/assessment-resources/short-assessment)



## HSC minimum standard

Information and resources designed to support department schools in the implementation of the HSC minimum standard.

[education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/hsc-minimum-standard](https://education.nsw.gov.au/teaching-and-learning/curriculum/literacy-and-numeracy/hsc-minimum-standard)

