

Appendix E

Assessment

There are many forms of assessment which can be used effectively in mathematics lessons. The samples provided here are just a few. Please see the Assessment in the Primary School Curriculum: Guidelines for Schools (NCCA, 2007) for more information and guidance in relation to assessment - available at <http://www.ncca.ie/uploadedfiles/publications/assess%20%20guide.pdf> .

Two assessment checklists for place value, decimals and percentages are provided here – one for whole class assessment and one for individual pupil assessment. The individual pupil assessment checklist can be used to ‘track’ a number of pupils in the class over the course of a year. Similarly, it can be used to ‘track’ pupils from 1st to 6th class. It enables a dual-approach to assessment – assessment of the concepts of place value, decimals and percentages in addition to assessment of the developmental mathematical experiences (concrete, pictorial, abstract).



Class Assessment: Place Value Learning Trajectory Level A

<p>Class Names:</p>	
<p>Concepts</p>	
<p>Level A.1 Explore, identify and record place value 0-99</p>	
<p>Level A.2 Explore, identify and record place value 0-199</p>	



Class Assessment: Place Value, Decimals and Percentages Learning Trajectory Level C




<p>Class Names:</p>																				
<p>Concepts</p>																				
<p>Level C.1 Explore, identify and record place value 0-9999</p>																				
<p>Level C.2 Read, write and order 4 digit numbers</p>																				
<p>Level C.3 Round whole numbers to the nearest thousand</p>																				
<p>Level C.4 Explore, express and identify place value in decimal numbers to two places (tenths and hundredths)</p>																				
<p>Level C.5 Make, order, compare and count decimals</p>																				
<p>Level C.6 Add and subtract whole numbers and decimals to 2 places</p>																				
<p>Level C.7 Multiply and divide decimals up to 2 places by a single-digit whole number</p>																				
<p>Level C.8 Solve problems involving decimals</p>																				



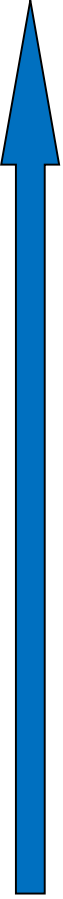



Class Assessment: Place Value, Decimals and Percentages Learning Trajectory Level D

<p>Class Names:</p>	
<p>Concepts</p>	
<p>Level D.1 Round whole numbers and round decimals to nearest whole number (to one, two or three decimal places)</p>	
<p>Level D.2 Express tenths, hundredths and thousandths as fractions and decimals</p>	
<p>Level D.3 Compare and order fractions, percentages and decimals</p> <p>Level D.4 Explore and calculate simple interest, profit, loss, VAT</p>	

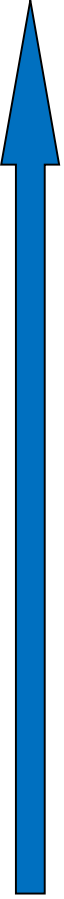



Individual Pupil Assessment: Place Value Learning Trajectory Level A

Individual Pupil Name:	Developmental Experiences		
Concepts	 <p>Concrete</p>	 <p>Pictorial</p>	 <p>Abstract</p>
Level A.1 Explore, identify and record place value 0-99			
Level A.2 Explore, identify and record place value 0-199			

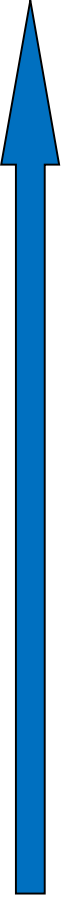



Individual Pupil Assessment: Place Value Learning Trajectory Level B

Developmental Experiences	
Individual Pupil Name:	
Concepts	 Concrete  Pictorial  Abstract
Level B.1 Explore, identify and record place value 0-999	
Level B.2 Read, write and order 3 digit numbers	
Level B.3 Round whole numbers to the nearest ten or hundred	
Level B.4 Explore, express and identify place value in decimal numbers to one place (tenths)	
Level B.5 Count, compare and order decimals	
Level B.6 Solve problems involving decimals	

Individual Pupil Assessment: Place Value Learning Trajectory Level C

Developmental Experiences	
Individual Pupil Name:	
Concepts	 Concrete  Pictorial  Abstract
Level C.1 Explore, identify and record place value 0-9999	
Level C.2 Read, write and order 4 digit numbers	
Level C.3 Round whole numbers to the nearest thousand	
Level C.4 Explore, express and identify place value in decimal numbers to two places (tenths and hundredths)	
Level C.5 Make, order, compare and count decimals	
Level C.6 Add and subtract whole numbers and decimals to 2 places	

Individual Pupil Assessment: Place Value Learning Trajectory Level D

Developmental Experiences	
Individual Pupil Name:	
Concepts	 Concrete  Pictorial  Abstract
Level D.1 Round whole numbers and round decimals to nearest whole number (to one, two or three decimal places)	
Level D.2 Express tenths, hundredths and thousandths as fractions and decimals	
Level D.3 Compare and order fractions, percentages and decimals	
Level D.4 Explore and calculate simple interest, profit, loss, VAT	