

Measures Manual Weight Assessment Pack

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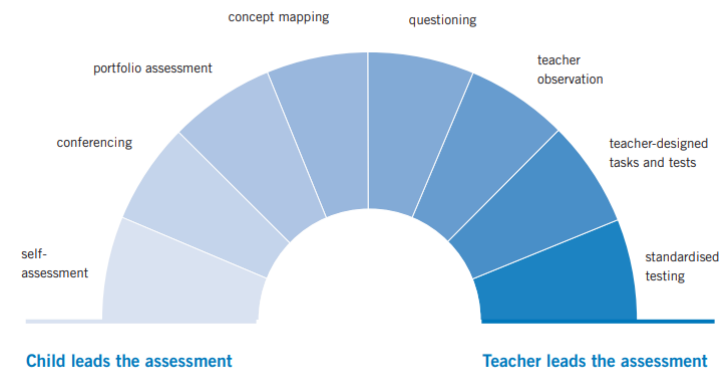
Assessment

There are many forms of assessment that 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 – click the image to access these guidelines.



Two assessment checklists for each strand are provided in this assessment pack – 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 infants to 6th class in Measures. It enables a dual-approach to assessment – assessment of the concepts of Measures in addition to assessment of the developmental mathematical experiences (concrete, pictorial, abstract). Finally, many assessment opportunities are inherent in the teaching and learning experiences throughout the Measures manual, for example:

- Self-assessment
- Conferencing
- Portfolio Assessment
- Concept Mapping
- Questioning
- Teacher Observation
- Teacher-designed tasks and tests



The Assessment Chapter (pages 112-121) of the Primary Maths Curriculum also provides further guidance on assessment

Throughout this manual, the blue rainbow symbol is used to highlight opportunities for assessment.



Whole Class Assessments

CLASS ASSESSMENT: WEIGHT LEARNING TRAJECTORY LEVEL A

| | |
|--|--|
| <p>Class Names:</p> <p style="text-align: center;">Concepts</p> | |
| <p>Level A.1 Develop an understanding of the concept of weight through exploration, handling of objects, and use of appropriate vocabulary.</p> | |
| <p>Level A.2 Compare and order objects in terms of weight.</p> | |
| <p>Level A.3 Select and use appropriate non-standard units to weigh objects and estimate and measure weight in non-standard units.</p> | |

CLASS ASSESSMENT: WEIGHT LEARNING TRAJECTORY LEVEL B

| <p>Class Names:</p> <p>Concepts</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>Level B.1 Estimate, compare, measure and record weight using non-standard units and deepen understanding of conservation of weight.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Level B.2 Select and use appropriate nonstandard measuring units and instruments and discuss reasons for choice.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Level B.3 Estimate, measure and record weight using standard unit (the kilogram), half kilogram and quarter kilogram and explore instances when objects or substances that weigh 1 kg vary greatly in size.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |

CLASS ASSESSMENT: WEIGHT LEARNING TRAJECTORY LEVEL C

| | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Class Names: Concepts | | | | | | | | | | | | | | | | | | | | | | | | |
| Level C.1 Estimate, compare, measure and record the weight of a wide variety of objects using appropriate metric units (kg, g) and select suitable instruments of measurement. | | | | | | | | | | | | | | | | | | | | | | | | |
| Level C.2 Rename units of weight in kg and g and rename units of weight in decimal or fraction form. | | | | | | | | | | | | | | | | | | | | | | | | |

CLASS ASSESSMENT: WEIGHT LEARNING TRAJECTORY LEVEL D





| | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| <p>Class Names:</p> <p>Concepts</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Level D.1 Estimate, compare, measure and record the weight of a wide variety of objects using appropriate metric units and select suitable instruments of measurement.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |
| <p>Level D.2 Rename units of weight in kg and g and decimal or fraction form.</p> | | | | | | | | | | | | | | | | | | | | | | | | | |

Individual Pupil Assessment





INDIVIDUAL PUPIL ASSESSMENT: WEIGHT LEARNING TRAJECTORY LEVEL A

| Individual Pupil Name | Developmental Experiences  | | |
|--|---|--|---|
| Concepts |  Concrete |  Pictorial |  Abstract |
| Level A.1 Develop an understanding of the concept of weight through exploration, handling of objects, and use of appropriate vocabulary. | | | |
| Level A.2 Compare and order objects in terms of weight. | | | |
| Level A.3 Select and use appropriate non-standard units to weigh objects and estimate and measure weight in non-standard units. | | | |





INDIVIDUAL PUPIL ASSESSMENT: WEIGHT LEARNING TRAJECTORY LEVEL B

| Individual Pupil Name | Developmental Experiences  | | |
|---|--|--|---|
| Concepts |  Concrete |  Pictorial |  Abstract |
| Level B.1 Estimate, compare, measure and record weight using non-standard units and deepen understanding of conservation of weight. | | | |
| Level B.2 Select and use appropriate nonstandard measuring units and instruments and discuss reasons for choice. | | | |
| Level B.3 Estimate, measure and record weight using standard unit (the kilogram), half kilogram and quarter kilogram and explore instances when objects or substances that weigh 1 kg vary greatly in size. | | | |

INDIVIDUAL PUPIL ASSESSMENT: WEIGHT LEARNING TRAJECTORY LEVEL C

| Individual Pupil Name | Developmental Experiences  | | |
|--|---|--|---|
| Concepts |  Concrete |  Pictorial |  Abstract |
| Level C.1 Estimate, compare, measure and record the weight of a wide variety of objects using appropriate metric units (kg, g) and select suitable instruments of measurement. | | | |
| Level C.2 Rename units of weight in kg and g and rename units of weight in decimal or fraction form. | | | |

INDIVIDUAL PUPIL ASSESSMENT: WEIGHT LEARNING TRAJECTORY LEVEL D

| Individual Pupil Name | Developmental Experiences  | | |
|--|---|--|---|
| Concepts |  Concrete |  Pictorial |  Abstract |
| Level D.1 Estimate, compare, measure and record the weight of a wide variety of objects using appropriate metric units and select suitable instruments of measurement. | | | |
| Level D.2 Rename units of weight in kg and g and decimal or fraction form. | | | |