



Victorian Curriculum and Assessment Authority

Information

On Demand *Testing*

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What is On Demand Testing?

On Demand assessment is an online resource for teachers to use when, where and how they choose. It puts teachers in the driving seat as they control the entire process from test selection, to analysis and use of the assessment data the program will produce. It is optional, time saving and able to be administered to a single student and/or a whole class. It offers a number of advantages including the capacity for automatic marking and computer generated reports.

This resource:

- provides access to a range of computer-based assessments that are easy to administer to individuals or groups of students
- has choices of tests across a range of learning areas and levels
- includes assessment tasks that can be marked by the computer, providing immediate results
- provides the option to offer the tests in printed form to students
- offers feedback in the form of class and individual student reports.

Tests are designed to link to the outcomes of the Victorian Essential Learning Standards (VELS). Both general skills tests and topic specific assessments are available.

Possible uses of the assessment system include:

- Pre and post testing of students around a topic
- Assessing new intake or late arrival students
- Identifying strengths or weaknesses of individual students
- Corroborating teacher judgements
- Assisting in forward planning of teaching programs

What On Demand Tests are Available?

Currently there are tests available in the Domains of Mathematics and English. The tests cover standard levels 1 to 6. A full description of the tests that are available is included with this package. The list of tests includes both linear and adaptive tests and further information is provided regarding adaptive tests in this document. Tests are continually being added to the test bank through the course of the year.

The assessments will be composed of questions in the following formats:

- multiple choice
- type in short answer
- hot spot
- drag and drop
- mathematical calculator - simple
- open text response.

Linear Tests

In these tests students receive a set of questions that use a variety of question types as described above. All students receive the same questions in the same order during the test. Students' responses are saved and scored by the computer. Teachers are able to view and analyse results through a number of different reports.

Adaptive Tests

Adaptive tests deliver sets of questions to students that vary according to student ability. Depending on the responses given in the previous questions, the system automatically presents easier or more difficult questions to each student. Teachers often find these computer-based tests determine a student's performance level quickly and accurately.

Many questions in an adaptive test are multiple choice. Students may also be required to enter short answers on the keyboard, use the mouse to 'drag and drop' answers, use an on-screen calculator or answer by locating a 'hot spot' on screen that corresponds to the answer. The adaptive assessments will be automatically marked by computer providing immediate class and student reports.

These adaptive tests would be suitable for:

- Identifying the ability of students
- Testing new intake or late arrival students
- Corroborating teacher judgements
- Assisting in forward planning of teaching programs
- Immediate feedback by class and student reports

Support for Schools

A Teacher Training Guide for On Demand testing is available and included with this package. It may also be downloaded from the following link.

<http://www.vcaa.vic.edu.au/correspondence/memorandums/2008/attachment/OnDemandTeacherTrainingGuide-April2008-1.pdf>

A user-friendly online help program, telephone support and email support are also available to schools and teachers. The VCAA Assessment Online Helpdesk is contactable on 1800 827 721 or email vcaa.ondemand.support@edumail.vic.gov.au

How to Register for On Demand Testing?

To register for On Demand testing, please complete the online registration form on the VCAA website at <http://www.vcaa.vic.edu.au/prep10/aim/ondemand/signup.html>

Schools will need to provide their VCAA School Code to complete this registration. Your school's VCAA code can be provided to you from the VCAA Assessment Online Helpdesk by phone, 1800 827 721, or email vcaa.ondemand.support@edumail.vic.gov.au

The Composition of On Demand Adaptive Tests

Sample Composition for a Year 7 60 Item General Test

- ◆ The general English and Mathematics computer adaptive tests consist of 60 questions. Each student is presented with a different selection of questions drawn from a large question pool consisting of questions from the different dimensions of the domain.
- ◆ All questions within the item pool have been allocated a curriculum level from 3 to 6 and an estimated difficulty within that level, namely 'high' (H), 'medium' (M) or 'low' (L). These are combined for each item to form its sub-level, e.g. 3L.
- ◆ Throughout an Adaptive test, students are presented with 12 subtests. Each subtest contains **five** questions from a particular sub-level. The first subtest within a test for Year 7 is at the 4H sub-level.
- ◆ If a student successfully answers 3 or more questions within a subtest, the next subtest the student receives will be at the next higher sub-level, e.g. if a student successfully answers 3 questions in a subtest at the 4M sub-level, the next subtest the student receives will be at the 4H sub-level.
- ◆ If a student successfully answers less than 3 questions within a subtest, the next subtest the student receives will be at the next lower sub-level, e.g. if a student successfully answers 2 questions in a subtest at the 4M sub-level, the next subtest the student receives will be at the 4L sub-level. However, if a student successfully answers more than 3 questions in a subtest at the 3L sublevel, the next subtest the student is presented with will be at the 3M sub-level.
- ◆ Figure 1 shows the possible pathways through a Year 7 30 question On Demand computer adaptive test.
- ◆ The specific pathway for a particular year level is referred to as a **Roadmap**.

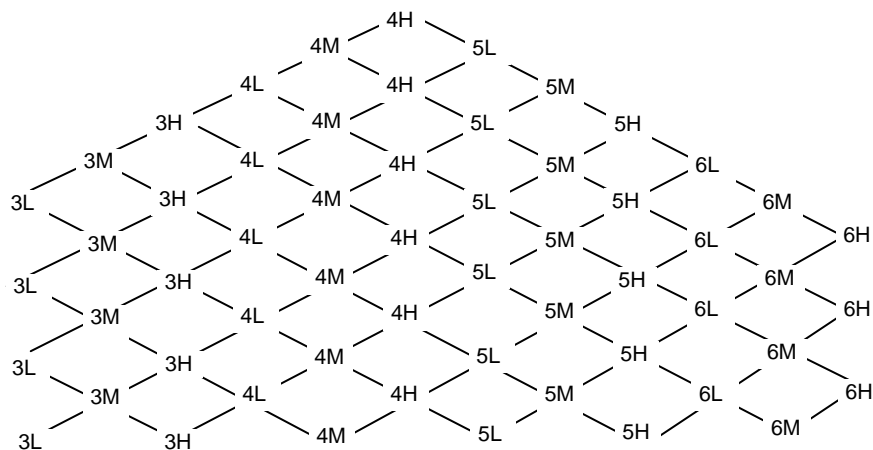


Figure 1: Possible On Demand CAT pathway or roadmap for a Year 7 (60 Question test).

- ◆ For the general English adaptive test, the 5 questions in the subtest consist of a mixture of reading, writing and spelling questions.

- ◆ For the general Mathematics adaptive test, the 5 questions in the subtest consist of questions from Number, Space, Measurement, chance and data, and Structure.

Sample Composition for a Year 7 30 Question Single-Dimension Test

- ◆ The single dimension English and Mathematics computer adaptive tests consist of 30 questions. Each student is presented with a different selection of questions drawn from a large question pool within a single dimension.
- ◆ All questions within the question pool have been allocated a curriculum level from 3 to 6 and an estimated difficulty within that level, namely 'high' (H), 'medium' (M) or 'low' (L). These are combined for each question to form its sub-level, e.g. 3L.
- ◆ Throughout an Adaptive test, students are presented with 10 subtests. Each subtest contains **three** questions from a particular sub-level. The first subtest within a test for Year 7 is at the 4H sub-level.
- ◆ If a student successfully answers 2 or more questions within a subtest, the next subtest the student receives will be at the next higher sub-level, e.g. if a student successfully answers 2 questions in a subtest at the 4M sub-level, the next subtest the student receives will be at the 4H sub-level.
- ◆ If a student successfully answers less than 2 questions within a subtest, the next subtest the student receives will be at the next lower sub-level, e.g. if a student successfully answers 1 questions in a subtest at the 4M sub-level, the next subtest the student receives will be at the 4L sub-level. However, if a student successfully answers more than 2 questions in a subtest at the 3L sublevel, the next subtest the student is presented with will be at the 3M sub-level.
- ◆ Figure 2 shows the possible pathways through a Year 7 30 question On Demand computer adaptive test.

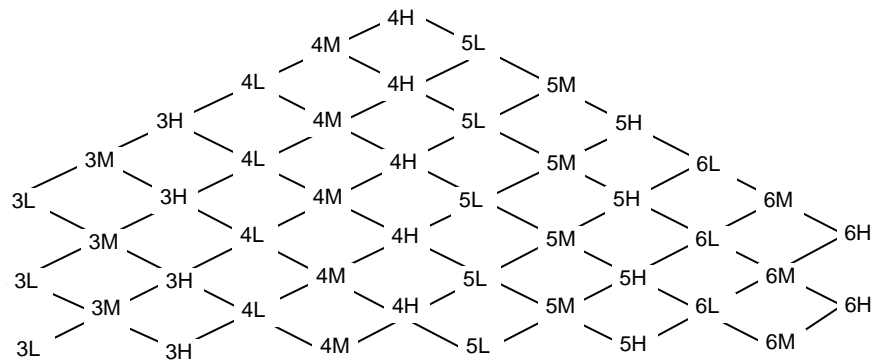


Figure 2: Possible On Demand CAT pathway or roadmap for a Year 7 (30 Item test).

- ◆ For the single dimension English adaptive test, the 3 questions in the subtest consist of only questions from a single dimension of the English domain, ie. reading, writing and spelling.
- ◆ For the single dimension Mathematics adaptive test, the 3 questions in the subtest consist of only questions from a single dimension of the Mathematics domain, ie. currently Number, Space, Measurement, chance and data.

Summary of Available Adaptive Tests

March 2008

English

Test Number	Test Description	Year Level	Start Sub-test Standard Level	Lowest Standard Level Questions	Highest Standard Level Questions	Number of Questions per Sub test	Number of Sub tests	Total Number of Questions	Dimensions covered
2085	English - YR03 - Reading	3	2 High	2 Low	5 High	3	10	30	Reading
2086	English - YR03 - Writing	3	2 High	2 Low	5 High	3	10	30	Writing
2087	English - YR03 - Spelling	3	2 High	2 Low	5 High	3	10	30	Spelling
2088	English - YR04 - Reading	4	3 Low	2 Low	6 Low	3	10	30	Reading
2089	English - YR04 - Writing	4	3 Low	2 Low	6 Low	3	10	30	Writing
2090	English - YR04 - Spelling	4	3 Low	2 Low	6 Low	3	10	30	Spelling
2091	English - YR05 - Reading	5	3 High	2 Low	6 High	3	10	30	Reading
2092	English - YR05 - Writing	5	3 High	2 Low	6 High	3	10	30	Writing
2093	English - YR05 - Spelling	5	3 High	2 Low	6 High	3	10	30	Spelling
2094	English - YR06 - Reading	6	4 Low	2 Low	6 High	3	10	30	Reading
2095	English - YR06 - Writing	6	4 Low	2 Low	6 High	3	10	30	Writing
2096	English - YR06 - Spelling	6	4 Low	2 Low	6 High	3	10	30	Spelling
2097	English - YR07 - Reading	7	4 High	3 Low	6 High	3	10	30	Reading
2098	English - YR07 - Writing	7	4 High	3 Low	6 High	3	10	30	Writing
2099	English - YR07 - Spelling	7	4 High	3 Low	6 High	3	10	30	Spelling
2100	English - YR08 - Reading	8	5 Low	3 Low	6 High	3	10	30	Reading
2101	English - YR08 - Writing	8	5 Low	3 Low	6 High	3	10	30	Writing
2102	English - YR08 - Spelling	8	5 Low	3 Low	6 High	3	10	30	Spelling
2103	English - YR03 - General	3	2 High	2 Low	6 Med	5	12	60	Reading, Writing & Spelling
2104	English - YR04 - General	4	3 Low	2 Low	6 High	5	12	60	Reading, Writing & Spelling
2105	English - YR05 - General	5	3 High	2 Low	6 High	5	12	60	Reading, Writing & Spelling
2106	English - YR06 - General	6	4 Low	2 Low	6 High	5	12	60	Reading, Writing & Spelling
2107	English - YR07 - General	7	4 High	3 Low	6 High	5	12	60	Reading, Writing & Spelling
2108	English - YR08 - General	8	5 Low	3 Low	6 High	5	12	60	Reading, Writing & Spelling

Mathematics

Test Number	Test Description	Year Level	Start Sub-test Standard Level	Lowest Standard Level Questions	Highest Standard Level Questions	Number of Questions per Sub test	Number of Sub tests	Total Number of Questions	Dimensions covered
2110	Mathematics - YR03 - Number	3	2 High	2 Low	5 High	3	10	30	Number
2111	Mathematics - YR03 - MCD	3	2 High	2 Low	5 High	3	10	30	Measurement, chance & data
2112	Mathematics - YR03 - Space	3	2 High	2 Low	5 High	3	10	30	Space
2113	Mathematics - YR04 - Number	4	3 Low	2 Low	6 Low	3	10	30	Number
2114	Mathematics - YR04 - MCD	4	3 Low	2 Low	6 Low	3	10	30	Measurement, chance & data
2115	Mathematics - YR04 - Space	4	3 Low	2 Low	6 Low	3	10	30	Space
2116	Mathematics - YR05 - Number	5	3 High	2 Low	6 High	3	10	30	Number
2117	Mathematics - YR05 - MCD	5	3 High	2 Low	6 High	3	10	30	Measurement, chance & data
2118	Mathematics - YR05 - Space	5	3 High	2 Low	6 High	3	10	30	Space
2119	Mathematics - YR06 - Number	6	4 Low	2 Low	6 High	3	10	30	Number
2120	Mathematics - YR06 - MCD	6	4 Low	2 Low	6 High	3	10	30	Measurement, chance & data
2121	Mathematics - YR06 - Space	6	4 Low	2 Low	6 High	3	10	30	Space
2122	Mathematics - YR07 - Number	7	4 High	3 Low	6 High	3	10	30	Number
2123	Mathematics - YR07 - MCD	7	4 High	3 Low	6 High	3	10	30	Measurement, chance & data
2124	Mathematics - YR07 - Space	7	4 High	3 Low	6 High	3	10	30	Space
2125	Mathematics - YR08 - Number	8	5 Low	3 Low	6 High	3	10	30	Number
2126	Mathematics - YR08 - MCD	8	5 Low	3 Low	6 High	3	10	30	Measurement, chance & data
2127	Mathematics - YR08 - Space	8	5 Low	3 Low	6 High	3	10	30	Space
2128	Mathematics - YR03 - General	3	2 High	2 Low	6 Med	5	12	60	Number, Measurement, chance & data, Space
2129	Mathematics - YR04 - General	4	3 Low	2 Low	6 High	5	12	60	Number, Measurement, chance & data, Space
2130	Mathematics - YR05 - General	5	3 High	2 Low	6 High	5	12	60	Number, Measurement, chance & data, Space
2131	Mathematics - YR06 - General	6	4 Low	2 Low	6 High	5	12	60	Number, Measurement, chance & data, Space
2132	Mathematics - YR07 - General	7	4 High	3 Low	6 High	5	12	60	Number, Measurement, chance & data, Space
2133	Mathematics - YR08 - General	8	5 Low	3 Low	6 High	5	12	60	Number, Measurement, chance & data, Space

MATHEMATICS TESTS

Description	Topic	Details	Year level
Mathematics 100: Number, Year 3	Number	15 questions, Levels 2, 3 including type in short answer	3
Mathematics 101: Number, Year 3	Number	15 questions, Levels 2, 3 including type in short answer	3
Mathematics 102: Number, Year 5	Number	20 questions, Levels 3, 4 including type in short answer	5
Mathematics 103: Number, Year 5/6	Number	20 questions, Levels 3, 4 including type in short answer	5,6
Mathematics 104: Number, Year 5/6	Number	20 questions, Levels 3, 4 including type in short answer	5,6
Mathematics 105: Number, Year 5/6	Number	20 questions, Levels 3, 4 including type in short answer	5,6
Mathematics 106: Number, Year 5/6	Number	20 questions, Levels 3, 4 including type in short answer	5,6
Mathematics 107: Number, Year 5/6	Number	20 questions, Levels 3, 4 including type in short answer	5,6
Mathematics 108: Number, Year 4	Number	20 questions, Levels 3, 4 including type in short answer	4
Mathematics 109: Number, Year 4/5	Number	20 questions, Level 3,4 including type in short answer	4,5
Mathematics 110: Number, Year 4,5	Number	20 questions, Level 3 including type in short answer	4,5
Mathematics 111: Number, Year 4/5	Number	20 questions, Levels 3, 4 including type in short answer	4,5
Mathematics 112: Number, Year 5/6	Number	20 questions, Levels 3, 4 including type in short answer	5,6
Mathematics 113: Number, Year 5/6	Number	20 questions, Levels 3, 4 including type in short answer	5,6

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Description	Topic	Details	Year level
Mathematics 114: Number, Year 5/6	Number	20 questions, Levels 3, 4 including type in short answer	5,6
Mathematics 115: Number, Year 5/6	Number	20 questions, Levels 3 4 including type in short answer	5,6
Mathematics 116: Number, Year 5/6	Number	20 questions, Levels 3 4 including type in short answer	5,6
Mathematics 117: Number, Year 3	Number	15 questions, Level 3 including type in short answer	3
Mathematics 118: Number, Year 3	Number	15 questions, Level 3 including type in short answer	3
Mathematics 119: Number, Year 4	Number	20 questions, Levels 3, 4 including type in short answer	4
Mathematics 120: Number, Year 3/4	Number	20 questions, Level 3 including type in short answer	3,4
Mathematics 121: Number, Year 3/4	Number	20 questions, Levels 2, 3, 4 including type in short answer	3,4
Mathematics 122: Number, Year 3/4	Number	20 questions, Level 3 including type in short answer	3,4
Mathematics 123: Number, Year 7/8	Number	25 questions, Level 3 including multiple choice and type in short answer	7,8
Mathematics 124: Number, Year 3/4	Number	20 questions, Level 3 including type in short answer	3,4
Mathematics 125: Number, Year 3/4	Number	20 questions, Level 3 including type in short answer	3,4
Mathematics 126: Number, Year 3/4	Number	20 questions, Level 3 including type in short answer	3,4
Mathematics 127: Number, Year 4	Number	20 questions, Levels 3, 4 including type in short answer	4
Mathematics 128: Number, Year 4	Number	20 questions, Levels 2, 3, 4 including type in short answer	4
Mathematics 129: Number, Year 3/4	Number	20 questions, Level 3 including type in short answer	3,4

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Description	Topic	Details	Year level
Mathematics 130: Number, Year 3/4	Number	20 questions, Level 3 including type in short answer	3,4
Mathematics 131: Number, Year 3/4	Number	20 questions, Level 3 including type in short answer	3,4
Mathematics 132: Number, Year 4	Number	20 questions, Level 3 including type in short answer	4
Mathematics 133: Number, Year 4	Number	20 questions, Level 3 including type in short answer	4
Mathematics 134: Number, Year 4	Number	20 questions, Level 3 including type in short answer	4
Mathematics 135: Number, Year 4/5	Number	20 questions, Level 3 including type in short answer	4,5
Mathematics 136: Number, Year 3	Number	15 questions, Levels 2, 3 including type in short answer	3
Mathematics 137: Number, Year 7/8	Number	24 questions, Levels 4, 5, 6 including multiple choice, type in short answer and calculator	7,8
Mathematics 139: Number, Year 3	Number	15 questions, Levels 2, 3 including type in short answer	3
Mathematics 140: Number, Year 4	Number	20 questions, Levels 3, 4 including type in short answer	4

ENGLISH TESTS

Description	Topic	Details	Year level
English 100: Reading, Year 5/6	Reading	22 questions, Levels 3, 4 including multiple choice answer	5,6
English 102: Reading, Year 2/3	Reading	18 questions, Level 2 including multiple choice answer	2,3
English 103: Reading, Year 3/4	Reading	22 questions, Levels 2, 3, 4 including multiple choice answer	3,4
English 104: Reading, Year 4/5	Reading	24 questions, Levels 3, 4 including multiple choice answer	4,5
English 106: Reading, Year 7/8/9	Reading	23 questions, Levels 5, 6, 6 Plus including multiple choice answer	7,8,9
English 107: Reading, Year 7/8/9	Reading	20 questions, Levels 5, 6 including multiple choice answer	7,8,9
English 108: Reading, Year 3/4	Reading	23 questions, Levels 2, 3 including multiple choice	3,4
English 109: Spelling, Year 4/5/6	Spelling	24 questions, Levels 3, 4, 5 including multiple choice and key in short answer	4,5,6