

Overviewing HOTmaths

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For teachers



For students



Many classrooms have limited access to technology, so most online resources are of little use. However the flexible nature of the HOTmaths Learning System allows for a wide range of uses both in the classroom and at home.

HOTmaths Content

The content is divided into two syllabuses: Early secondary and Middle secondary.

Each syllabus is divided into topics with **topic quizzes** that provide students with a quick means of determining their strengths and weaknesses at a topic level.

Each topic is broken into lessons containing:

- **Lesson notes** that summarise the content and provide links to interactive widgets, **dictionary** references and rich worksheets with full solutions.
- **HOTsheets** (worksheets) that satisfy a variety of purposes such as practice, engagement, enrichment, problem solving, practical activities and extension. Separate full solutions are provided where needed.
- **Widgets** (Flash interactives) that meet a variety of needs from explanation, exploration, visualisation and engagement.
- **Walkthroughs** that provide step-by-step assistance with problem solving, including feedback tailored where possible to the user's answers.
- **Scorcher** that provides repetitive practice of basic skills for the lesson in a competitive environment.
- **Questions** that enable the student to assess their own level of understanding.
 - Level 1: answers are found in the lesson notes
 - Level 2: basic skills focusing on this lesson only
 - Level 3: requiring deeper understanding and integrating prior lessons in the topic
 - Level 4: problem solving tasks requiring the ability to link various learning areas

The HOTmaths **records system** is automatically updated to track student progress and provide teachers with detailed information for entire classes or individual students.

Gathering data for reporting and teaching

Topic Report – Teachers

An overview of the progress for the whole class in any topic. Each column represents a separate lesson. The colour indicates the highest question-level achieved in that lesson. Select any student to view the details of their progress.

Early secondary – 3D shapes	A	B	C	D	E
Hubbis, Georgia					
Carfax, Ivan					
Chen, Li					
Chen, Lisa					
Collins, Jordan					
Costa, Isabelle					
Cram, Joe					
Davidson, Matthew					
Deo, John					
Furferlik, Camille					
Gardner, Emily					
Jones, Chris					
Kardis, Eddie					
McFarlane, Justie					
Schmitt, Andrew					
Treiber, Chris					
Woolmer, David					

Lesson Report – Teachers

Details of the achievement and effort for a whole class for one particular lesson.

Progress and result	Walkthrough	Lesson Exercises and questions				Scorcher
		Lvl 1	Lvl 2	Lvl 3	Lvl 4	
Hubbis, Georgia	3	0/0	4/4	4/4	0/0	0/0
Carfax, Ivan	0	4/4	4/4	4/3	3/3	0/0
Chen, Li	1	0/0	0/0	0/0	0/0	0/0
Chen, Lisa	0	0/0	0/0	0/0	0/0	0/0
Collins, Jordan	0	0/0	0/0	0/0	0/0	0/0
Costa, Isabelle	0	0/0	0/0	0/0	0/0	0/0
Cram, Joe	4	10/22	7/9	4/4	0/0	0/0
Davidson, Matthew	0	0/0	0/0	0/0	0/0	0/0
Deo, John	1	4/4	4/0	0/0	3/4	0/0
Furferlik, Camille	1	1/3	4/0	1/1	3/4	0/0
Gardner, Emily	0	4/4	4/4	4/4	0/0	0/0
Jones, Chris	1	3/5	3/5	4/4	0/0	0/0
Kardis, Eddie	2	3/5	4/4	4/3	1/1	0/0
McFarlane, Justie	0	4/0	4/0	4/4	4/4	0/0
Schmitt, Andrew	0	3/6	4/0	1/1	4/4	0/0
Treiber, Chris	1	4/4	4/4	4/4	0/0	0/0
Woolmer, David	2	4/4	3/0	4/4	0/0	35/50

Topic Quiz Report – Teachers

The results of the latest topic quiz at a particular level for each student, including the date of the quiz. Select any student to view the history of all their quiz results.

Early secondary – 3D shapes	Questions correct or incorrect for each lesson					Quiz Result	Quiz Date
	A	B	C	D	E		
A-Z						0/0	17/05/2007
Hubbis, Georgia						0/0	17/05/2007
Carfax, Ivan						4/5	17/05/2007
Chen, Li						0/0	26/04/2006
Chen, Lisa						0/0	13/03/2006
Collins, Jordan						0/0	
Costa, Isabelle						0/0	
Cram, Joe						0/0	
Davidson, Matthew						0/0	
Deo, John						0/0	
Furferlik, Camille						0/0	
Gardner, Emily						0/0	13/03/2006
Jones, Chris						3/5	13/03/2006
Kardis, Eddie						2/5	13/03/2006
McFarlane, Justie						4/5	26/05/2007
Schmitt, Andrew						0/0	
Treiber, Chris						0/0	
Woolmer, David						4/5	17/05/2006

Individual Student Report – Teachers, Students and Parents

Details of a student's efforts and achievements for each lesson in a topic.

Topic Lesson Progress – 15/09/2008		Lesson											
Early secondary – Number theory		Walkthrough	Scorcher		Questions								
		Attempted	Last 30	Lvl 1	Lvl 2	Lvl 3	Lvl 4	Lvl 5	Lvl 6	Lvl 7	Lvl 8	Lvl 9	Lvl 10
A	Simple number patterns	3	20	27/20	0/0	8/8	7/7	0/0	0/0	0/0	0/0	0/0	0/0
B	Further patterns in numbers	4	20	15/20	7/7	6/6	10/11	6/6	0/0	0/0	0/0	0/0	0/0
C	Factors and multiples	0			8/8	9/9	12/12	8/8	0/0	0/0	0/0	0/0	0/0
D	Highest common factor (HCF)	0			4/6	11/11	8/8	0/0	0/0	0/0	0/0	0/0	0/0
E	Lowest common multiple (LCM)	0			9/9	10/10	8/8	0/0	0/0	0/0	0/0	0/0	0/0
F	Divisibility tests	0			8/8	6/6	11/12	10/10	0/0	0/0	0/0	0/0	0/0
G	Prime and composite numbers	0			9/9	8/8	7/8	10/10	0/0	0/0	0/0	0/0	0/0
H	Factor trees	0			9/9	11/11	15/15	10/10	0/0	0/0	0/0	0/0	0/0
I	HCF and LCM for large numbers	0			8/8	7/8	9/9	8/8	0/0	0/0	0/0	0/0	0/0
J	Square roots	0			0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0	0/0
K	Cube roots	0			0/0	0/0	4/8	0/0	0/0	0/0	0/0	0/0	0/0

Course Report – Students and Parents

Overview showing a student's question results and topic quizzes for an entire syllabus of topics.

Topics	Lessons	Highest Level Achieved in Each Lesson – 25/09/2007														Latest Quiz Percent	
		A	B	C	D	E	F	G	H	I	J	K	L	M	N		
Whole numbers																	
Number theory																	81%
Fractions																	41%
Decimals																	92%
Percentages																	
Integers																	91%
Algebra																	
Length, perimeter and area																	
Measures, solids																	38%
Time																	
3D shapes																	91%
Solids																	15%
3D shapes																	
Chance																	
Coordinate geometry																	
Operations, data																	
Statistics, percentages																	
Equations and inequalities																	
Manipulations, algebra																	
Circle and angles																	
The number plane																	
Geometric solids																	
Congruent and similar shapes																	
Ratio and rate																	
Euclidean geometry																	
Set theory																	

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OR

Free 24-hour trial



Enter your email address and a link will be sent allowing you to register for a free 24-hours trial of all the features.

Free lessons

Two lessons are also provided to allow you to demonstrate the site to colleagues, students and parents.