# Overviewing 4HOTmaths

### www.hotmaths.com.au

#### 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	Α	8	C	D	E
Bubble, Georgia	- 4				
Carlos, Ivan	2				
Ches. LI	3				
Chew, Lian					
Colless, Jordan					
Coria, Tialaja					
Crem. Joe		2	3	- 1	3
Davidson, Hatthew					
Don, John	3				
Farfaniuk, Camille	2		4		
Gnoster, Emily	- 4	- 1			
Jones, Chris	4				
Karille, Eirinn	4				
McFarlane, Justin	4				
Schnidt, Andrew	4				
Trainer, Chris	3				
Zeolander, Davis	4	3		1	

#### Lesson Report - Teachers

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

Progress and result	Lesson Faces, edges and vertices										
	Walkthroughs		Scorcher								
		Lvl 1	Lvl 2	Lvl 3	Lvl-4						
Bubble, Georgia		6/7	4/4	4/4	4/4	0/0					
Carlos, Ivan	0	4/4	4/4	4/5	1/3	0/0					
Chen, Li	1	4/4	4/4	4/4	0/2	0/0					
Chew, Lian	0	0/0	0/0	0,0	0/0	0/0					
Colless, Jordan	0	0/0	0/0	0/0	0/0	0/0					
Coria, Tjahaja	0	0/0	0/0	0/0	0/0	0/0					
Cram, Joe	4	19/22	5/9	4/4		0/0					
Davidson, Matthew	0	0/0	0/0	0/0	0/0	0/0					
Doe, John	1	4/4	4/6	6/9	2/4	0/0					
Farfaniuk, Camille	1	1/3	4/5	1/1	3/4	0/0					
Gnoster, Emily	0	4/4	4/4	4/6		0/0					
lones, Chris	1	5/5	3/3	4/4		0/0					
Karille, Eirinn	2	5/5	4/4	4/5		0/0					
McFarlane, Justin	0	4/5	4/5	4/4		0/0					
Schmidt, Andrew	0	5/6	4/6	1/1		0/0					
Trainer, Chris	1	4/4	4/4	4/4	0/2	0/0					
Tentender Deuts		474	7.07	474		25.00					

#### Topic Quiz Report - Teachers

The results of the <u>latest</u> 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 sh	apes								
Student Name	Question corre	is correct ect • - is	or incorr scorrect	ect for ear	th lesson	Quiz Result	Quiz date		
	A	B.	2	D	E				
A.Z	- /	×	1	1	1	2/2	17/05/2007		
Dieggs, Jae	- /	×	1	•	1	4/5	17/05/2007		
Bubble, Georgia						a/a			
Corios, Ivan	1	•	1	1	1	4/5	20/04/2006		
Chen, Li						a/a			
Chew, Lian	1	1	1	1	1	9/9	13/03/2006		
Colless, Jordan						0/0			
Coria, Tjahaja						0/0			
Davidson, Natthew						0/0			
Doe, John						0/0			
Farfaniuk, Camille						0/0			
Jones, Chris	- /	V	1	•	•	3/5	13/03/2006		
Karlile, Eirinn	•	V	1	•	•	2/5	13/03/2006		
McFarlane, Justin	- 1	1	1	•	1	4/5	20/05/2007		
Schmidt, Andrew						0/0			
Trainer, Chris						0/0			
Zeolander, Davis	1	•	•	•	•	1/5	17/02/2006		

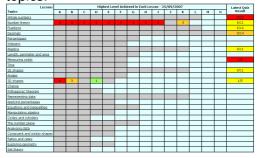
#### Individual Student Report – Teachers, Students and Parents

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

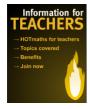
		Topic Lesson	Progres	s - 15/	09/200	18							Lesson						
Early secondary → Number theory							Walkthroughs		S	cord	ner	Questions							
								Walkth	Attempt	Attempted La		Lvl 1	Lvl 2	Lvl 3	Lvl 4				
A Simple number patterns									3	3	70	┑	27/30	6/7	8/8	7/7			
В	Further patterns in numbers									1	20	┑	15/20	7/7	8/8	10/11			
C F	Factors and multiples									)		┑		8/8	9/9	12/12	8/9		
D I	Highest common factor (HCF)									)		╗		6/6	11/11	8/8			
E I	Lowest common multiple (LCM)									)		П		9/15	10/13	6/10			
F (										)		П		8/9	8/9	11/12			
6 6	G Prime and composite numbers									)		╛		9/9	8/8	7/8			
H F	H Factor trees								(	)		╛		9/9	11/11	15/16			
I HCF and LCM for large numbers								$\neg$	(	)		П		6/7	7/10	9/12			
) !	J Square roots									0		Т		0/0	0/0	0/0	0/0		
K	Cube roots									)		Т		0/0	0/0	4/8	0/0		
Topic Quiz Results Questions correct or incorrect for each lessor 15/09/2008  Questions correct or incorrect for each lessor ✓ – correct ● – incorrect																			
Date		Level	A	В	С	D	E	F	G	н	1	)	K	Quiz Result					
07/02	/2006	2	1	1	1	•	•	1	1	1	•	•	1	7/11					
07/02	/2006	2	1	1	1	•	•	1	1	1	1	•	1	8/11					
09/03	/2006	3	1	1	•	1	•	1	1	•	•	•	•	5/11					
27/03/	/2006	2	1	1	1	1	•	•	1	1	1	1	•	8/11					

## Course Report – Students and Parents

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



#### Want more information?



Free 24-hour trial



Information is available from the home page at

www.hotmaths.com.au

OR

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.