enVisionMATHS Online Tutorial Guide 2 Tutorial 2.2: Differentiation

Introduction

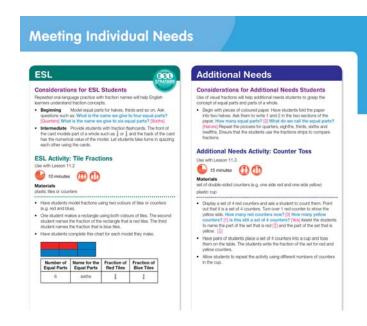
This guide will look at the range of ways that enVisionMATHS caters for differentiation in the classroom; from additional needs to multi-age classrooms.

Differentiation

The amount of differentiation in the classroom depends on the needs of the class as identified in the planning by the teacher. enVisionMATHS is designed to allow for differentiation at all stages and provides resources that allow the planning of pathways for different ages and levels within the classroom.

(Note that pre-assessment is an important step in determining differentiation needs and is explained in the Assessment tutorial.)

Teacher Resource Booklets



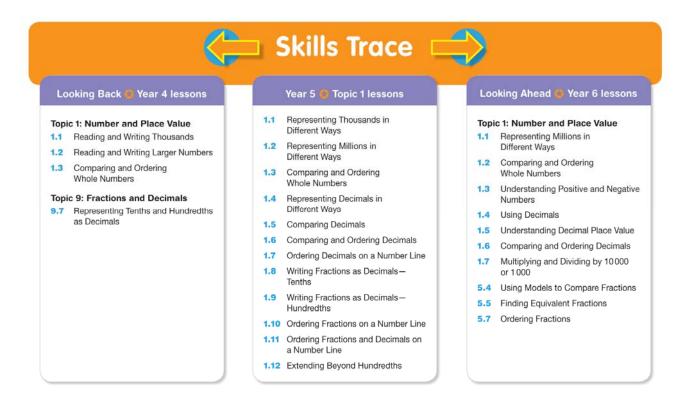
Individual Needs

For each topic in each year level, the Teacher Resource Booklets provide extra activities for individual needs including ESL and additional needs students. Error intervention tips and extension ideas are also provided for each lesson.

PEARSON

Skills Trace

The Skills Trace at the start of each Teacher Resource Booklet gives an at-a-glance view of what lessons in the year above and below also relate to the current lesson, providing the means to plan for a multi-age and/or differentiated classroom.

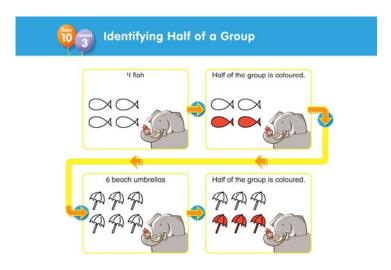


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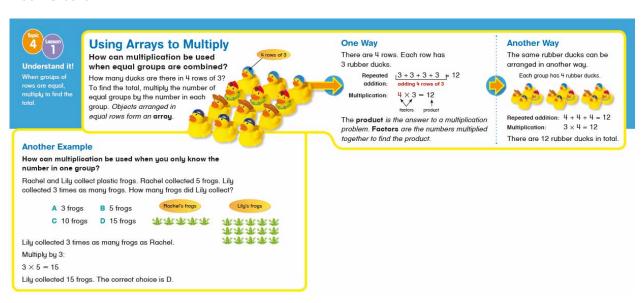
Visual Learning Bridge

There is a Visual Learning Bridge (or VLB) for each lesson in each topic for Years F to 6. These Visual Learning Bridges can be found on the IWB DVD or Teacher Resource DVD and are also reproduced in the Teacher Resource Booklets at all year levels and Student Activity Books (for Years 3 to 6 only). These visually represent maths concepts in a variety of ways to suit different learners. They provide a visual reference to the important lesson concept for students, which can be revisited.

Year F to 2



Year 3 to 6



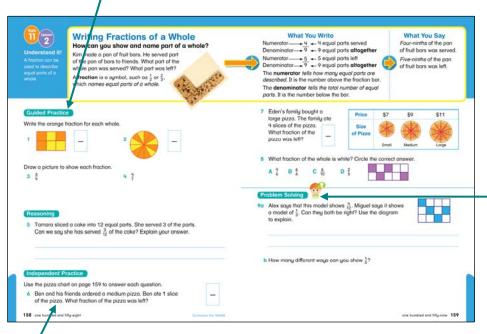
'Another example' is added to VLBs where appropriate. This presents the concept in a different example to consolidate understanding.

Pearson Australia

Student Activity Book

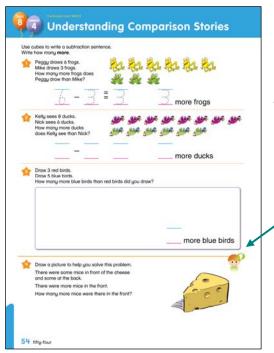
The Student Activity Book Lesson pages across Years 3 to 6 provide differentiation possibilities through the many different features and practice examples on each page.

Guided Practice questions – allow students to apply the concept with teacher support



Problem-solving questions – allow all students to be challenged to varying degrees, so that they can come up with an appropriate answer

Independent Practice questions – allow confident students to progress at their own speed



The Student Activity Books for Foundation to Year 2 have a different format with fewer sections, but still include problem solving for every lesson

Activity Zone Cards

The Activity Zone cards at each year level are particularly designed to provide differentiated activities in class.

enVision Minds Cards

These are provided for years 3 to 6. The front of each card introduces a mental maths strategy. The back contains quiz questions in groups of six, with each group becoming progressively more difficult, allowing success for all levels of ability.

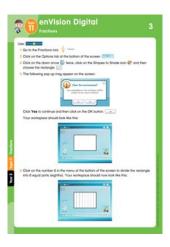


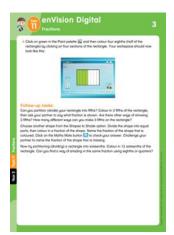


Note that there are no Minds Cards for Foundation to Year 2. Mental Computation activities are provided in each Teacher Resource Booklet for these year levels.

enVision Digital Cards

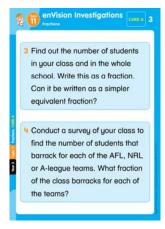
These cards can be used independently by students or with teacher support in group situations. Follow-up tasks are provided on each card as an extension activity.

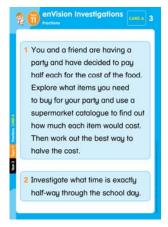




enVision Investigations Cards

These cards provide two to four real-life investigations related to the topic. These investigations are progressively more challenging by the end of the card.





Note that there are 2 investigations only per card in Foundation to Year 2.

enVision Games Cards

The enVision Games cards are two-sided. The first side (*) is suitable for all students and the second side (**) is an extension.



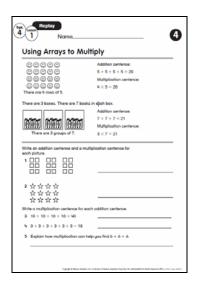


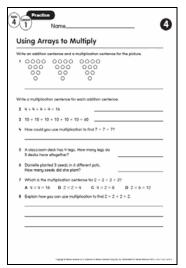
Teacher Resource DVD

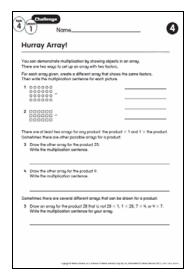
The Teacher Resource DVD is provided with the Overview and Implementation Guide for each year level. This DVD provides Differentiated Worksheets, Visual Learning Bridges, diagnostic Pre- and Post-assessments and editable teacher planning and recording documents. It provides resources for the year below and the year above as well as the current year, which allows for valuable differentiation possibilities.

Differentiated Worksheets

Three Differentiated Worksheets are provided for each lesson within each topic in each year level. These are designed for below-level (Replay), at-level (Practice) and above-level (Challenge) students, with the teacher directing students to the appropriate worksheet.







These worksheets can be used in any number of ways: as homework, as group work, for extra practice, for extension work or revision in class.

The Multi-age Classroom

enVisionMATHS is a flexible program. The abundance of interrelated resources such as Activity Zone cards, Visual Learning Animations or Videos, Differentiated Worksheets and Tools4Maths can be selected and used with different age and ability groups as required.

Specific advice on implementing enVisionMATHS in multi-age classrooms is provided on pages 41 to 43 of each Overview and Implementation Guide.