Teaching and Learning
Evening
Year 7 Mathematics & Science

5th February 2018
Heads of Department

Junior Secondary – Kath Laurance

HOD Science – Chris Bailey

HOD Maths – Jonathan Wells
Tonight

• Maths and Science at Kenmore State High
• Year 7 Programs
• Extra Curricular Activities/Opportunities
• Homework Program
• What You Can Do To Help 😊
Maths at Kenmore

Maths

Maths Year 10

Essential Maths Year 11 and 12

General Maths Year 11 and 12

Maths Extension Year 10

Mathematical Methods Year 11 and 12

Specialist Maths Year 11 and 12

Maths Accelerated Year 10

Both Mathematical Methods & Specialist Maths Year 11 and 12

*University mathematics also offered in year 12
Science at Kenmore

*University Chemistry is also offered in Year 12*
# Year 7 Maths Assessment Overview

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# Year 7 Science Assessment Overview

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<th>Unit 4: Chemistry</th>
<th>Chemistry Multiple Choice/Short Answer Exam</th>
<th>Separating Mixtures and Water Filters Exam</th>
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Extra-Curricular Activities

Maths
• ICAS Maths Competition
• Australian Maths Competition
• Maths Team Challenge
• Maths Challenge for Young Australians
• Australian Mathematics Olympiad
• QAMT Year 7-8 Quiz
• UQ/QAMT Problem Solving Competition

Science
• UQ Kids STEM Program (Zenith)
• ICAS Science Competition
• Young ICT Explorers Competition
• National Science Week Activities
• Big Science Competition

Refer to the Kenmore website
https://kenmoreshs.eq.edu.au/Extracurricular/
Resources

Maths

MathsWorld 7 Textbook
  – Electronic textbook
  – Worked examples, answers in back, challenge activities

OneNote
  – PowerPoints, Worksheets, Links

Maths Mate
  – Weekly Practice
  – Skill Builders

Online Resources
  – Education Perfect
  – Manga High (ICE)
  – KHAN Academy, Mathsisfun etc.

Science

Pearson Science 7 Textbook
  – Electronic textbook
  – Range of question levels, challenge activities.

OneNote
  – PowerPoints, Worksheets, Interactives and Video Links

Online Activities
  – Education Perfect
Education Perfect

Education Perfect is an online platform designed to make learning fun, engaging and effective.
Required Materials

1. Computer (charged nightly)
2. Exercise Books (larger book for Maths)
3. Pencil Case (pencil and eraser etc.)
4. Scientific Calculator
5. Homework Folder
Homework

Maths
• 8 weekly Maths Mate worksheets each term due every Monday or the next Maths lesson in a disrupted week.
• Education Perfect online tasks or other homework individually set by classroom teacher.

Science
• Education Perfect online tasks or other homework individually set by classroom teacher.
Maths Mate benefits

• **Regular** homework helps maintain and develop important skills
• Structured approach so can monitor own **development**
• Encourage greater **responsibility** for their own learning
• Provide a **challenging** level of work for all students
• Encourage **parental** involvement in the learning process
• Assist teachers in the **diagnosis** of student strengths and weaknesses
• Provide teachers with a concrete method of **assessing** students’ homework effort
• Ensures **regular exposure** to Mathematical skills that are necessary prerequisites to problem-solving
Study (Revision at home)

At home students should;

- **Workbook**: Go over class notes and make sure they understand the content.
- **OneNote**: Read through OneNote resources, complete worksheets.
- **Textbook**: Complete additional questions from the textbook.
- **Education Perfect**: Complete any set tasks.
How You Can Help

• Check your child is taking all equipment to class.
• Check their calendar for important due dates.
• Check they have completed their weekly Maths Mate homework, and Science Education Perfect homework.
• Encourage discussions around concepts learnt at school.
• Look for numeracy and scientific “moments” and discuss them.

If your child is absent remind them to email their teacher to see what classwork has been missed.
Tutoring

- Year 7 Homework Club
- Maths club run by senior students.
- List of tutors who operate outside of school time is available (contact HODs).
- Individual teachers may offer catch up sessions.
Contacts

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Mathematical Mindsets

Additional Information

Maths at Kenmore
Mistakes And Challenge Are The Best Times For Your Brain!

You want to be struggling and finding work hard. When you make a mistake and struggle your brain grows!
Believe In Yourself, It Changes What You Can Do!

Research has shown that if you believe in yourself and you make a mistake your brain responds with more activity and brain growth than if you don’t believe in yourself. Always remember you can learn anything!
Everyone Can Learn Maths To High Levels!

There is no such thing as a maths person! This is how we grow maths brains. When we learn, one of three things happen:

1. We grow a new brain pathway:

2. A brain pathway becomes stronger:

3. Different brain pathways connect:

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Depth Is More Important Than Speed!

Many mathematicians work slowly because they think deeply rather than quickly. Award-winning mathematician Laurent Schwartz talked about feeling stupid when he was in school because he was a slow thinker. When you work on maths go for depth over speed!
Maths is About Learning Not Performing!

It is important to remember that learning maths is about taking time and putting in lots of effort. Don’t be put off by any low grade or test score, you can learn anything you want to! Visit youcubed.org for ideas to help you.
Questions and Discussion
Deepen Your Mathematical Understanding!

Studies show that doing maths with others helps you. Get together with your friends to do maths and discuss it, it will really help you!
Maths Is About Creativity And Making Sense!

Maths is a sense-making subject, you yourself can know if an answer is right by reasoning about it.

If you finish a question think of a different way to solve it or pose another question!