



Smart Math, Strong Future: Parent Strategies That Work

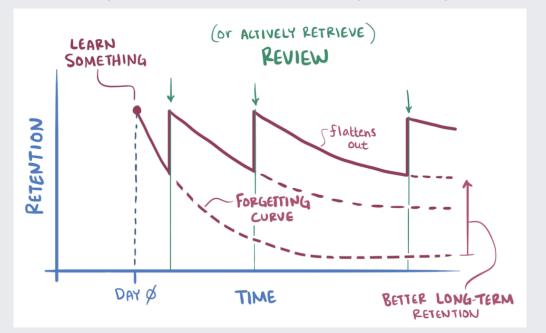
Mr. Mak Kin Wai (Cheung Chuk Shan College)





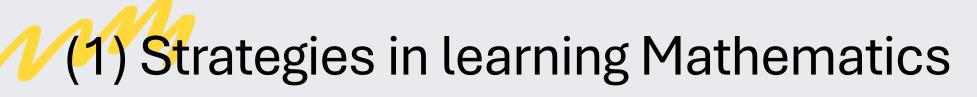
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- Purpose of Revision:
 - Convert Short term memory to Long term memory
- Ebbinghaus forgetting curve before and after revision
 - Spaced Repetition: after 2 day, 3 days, 7 days (green arrows)









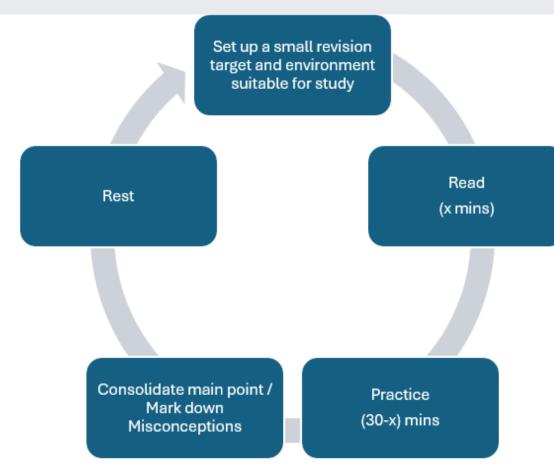


• Recommended revision cycle:

- Small and achievable target under an interval that the student can fully concentrate.
- Concentrate in one particular subtopic. (e.g. Law of Indices $a^m \times a^n = a^{m+n}$)
- Set timer for 30-35 minutes, focus 2 tasks (Read and Practice) and work on the particular topic.
- When one session ends, enjoy a 5-10 minutes break.

(Break is essential for information retention)

 Start another session after the break if necessary.

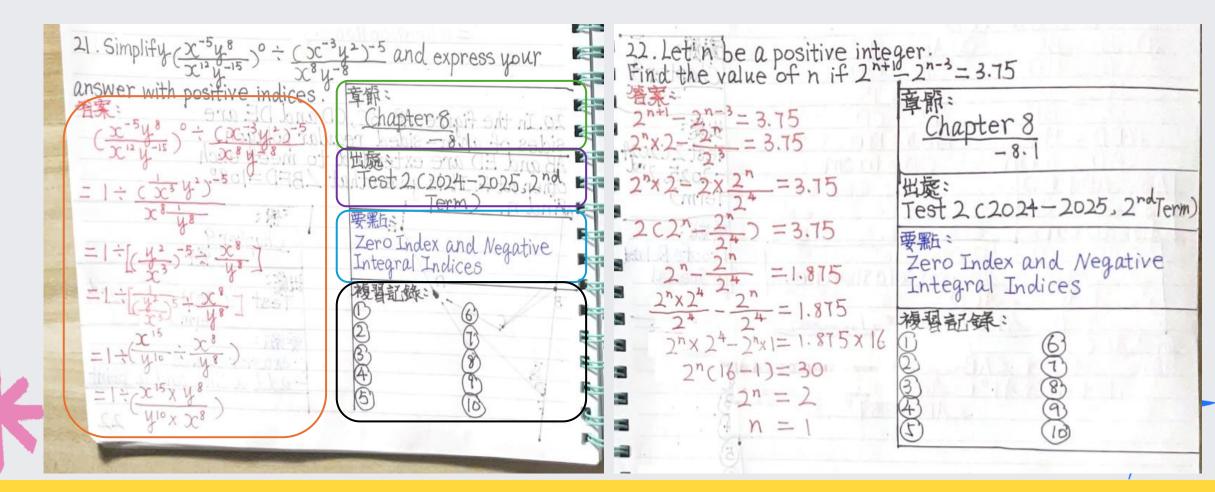








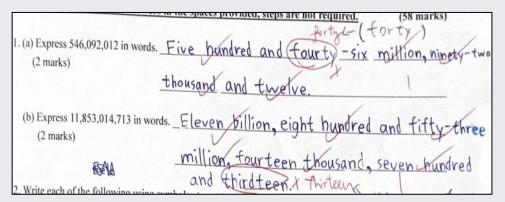
- Creation of Error Book
 - Sample Work (S2)





Self-regulated measures in revising different categorization of common mistakes in error book:

(a) Spelling mistake:



(b) Careless mistake → copying wrong expression!

(a)
$$\frac{[282 - (176 - 2 \times 51) \div 2 + (\frac{15}{7 \times 2})] \div 11}{4} - 1$$

$$\underbrace{\{ \begin{bmatrix} \frac{282}{6} - (176 - 2 \times 51) \div 2 + (\frac{15}{7 \times 2}) \end{bmatrix} \div 11 \}}_{4} - 1$$

$$= \underbrace{\{ \begin{bmatrix} \frac{282}{6} - (74) \div 2 + (\frac{15}{4}) \end{bmatrix} \div 11 \}}_{2} - 1$$

$$= \underbrace{\{ \begin{bmatrix} \frac{282}{6} - 37 + \frac{15}{4} \end{bmatrix} \div 11 \}}_{4} - 1$$

$$= \underbrace{\{ \begin{bmatrix} 10 + \frac{15}{4} \end{bmatrix} \div 11 \}}_{5} - 1$$

$$= \underbrace{\{ \begin{bmatrix} 11 + 1 \end{bmatrix} \end{bmatrix}}_{5} - 1$$

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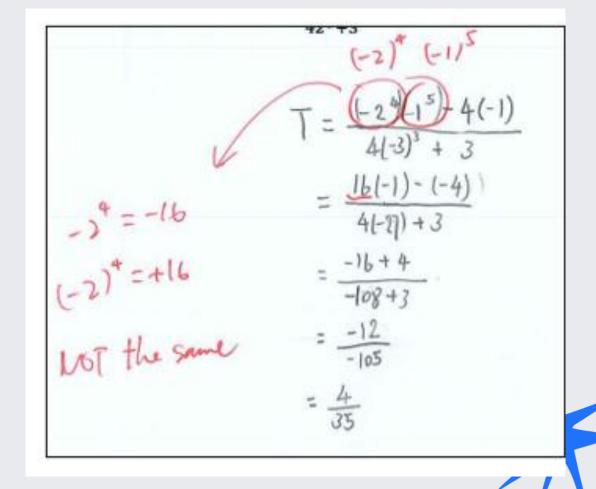
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(c) Misconception:





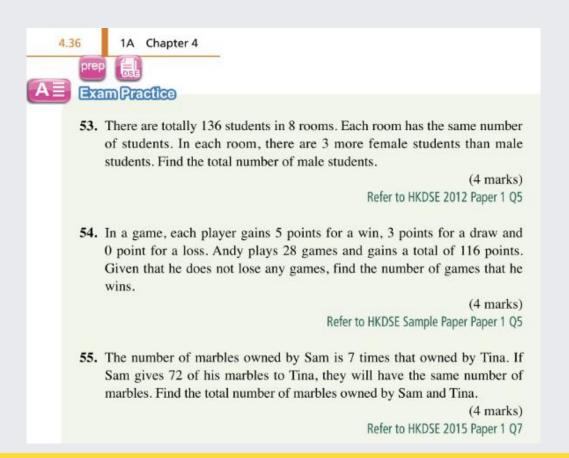
- Creation of Schedule Book → Good habit is your weapon!
 - Sample Work (S6) → Schedule for regular revision of mathematics.

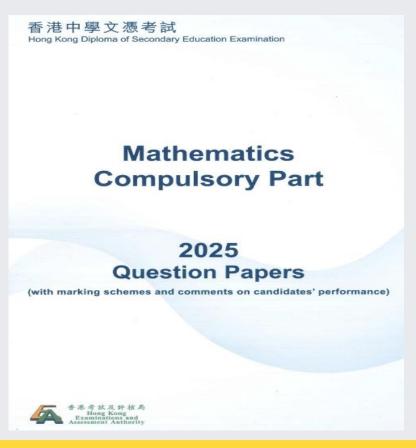




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- Suggested to practise public examination questions proactively.
 - Borrow DSE past papers from school library.
 - Read the section about "Exam Practice" from textbook.







(2) Information related to some queries



- We have Mathematics Olympiad Training for both junior form and senior form students.
 - Various inter-school mathematics olympiad competitions are also available for students to participate. (PIC: Miss T.Y. Lee, Mr. O. Lin, Mr. M.Mak)
- "Aim higher, you will never land low" Starting from early stage, students were exposed to both fundamental questions and advance questions in assessment so as to aid them get well-prepared for public examination.
- All teachers have their professional judgement on whether supplementary lessons are necessary or not – (i.e. mainly based on the teaching pace related to coverage of the syllabus)

(2) Information related to some queries



- Students are generally very capable in learning and the competition among students are very keen at school indeed.
 - Never defeat yourself if the test/exam score is not satisfactory.
 - Consider adopting the recommended revision strategies and the self-regulated measures for future improvement.
 - Don't hesitate to seek help from your subject teachers and our Math TA Mr. Hung.
- Remedial and Enhancement Mathematics Tutorial classes were also offered to selected students in need. Yet, all students are always encouraged to consult your subject teachers for any further assistance required.





Thank you!



