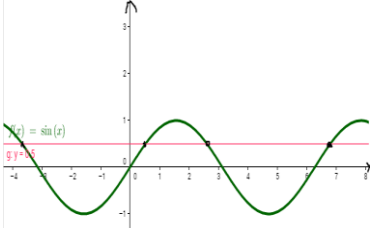# HAWKER COLLEGE
Engage | Inspire | Achieve

Goals

By the end of this unit, students:
- understand the concepts and techniques in trigonometry, real and complex numbers, and matrices
- apply reasoning skills and solve problems in trigonometry, real and complex numbers, and matrices
- communicate their arguments and strategies when solving problems
- construct proofs of results
- interpret mathematical information and ascertain the reasonableness of their solutions to problems

This week:
Applications of trigonometric functions to model periodic phenomena:

- model periodic motion using sine and cosine functions and understand the relevance of the period and amplitude of these functions in the model.
- Exams

Theoretical Components

Read through examples and make notes.

Knowledge checklist for Test 1:

- Solving trig equations

- Graphing trig equation

- Compound Angles (sum, difference, double angle, half angle, product to sum)

- Graphs of reciprocal trig functions

- convert sums a cos x + b sin x to R cos(x + or – alpha) or R sin (x + or - alpha)

- Trig modelling (applications)

- Trig Identities (proof)

Practical Components

Check Google Drive TEST 1 Revision folder:

- Attempt as many questions.

- Prepare your summary notes for the test.

Investigation

None this week!

Exam in WK08.

QFO
Quiz/Forum/Other

Mathspace quiz: Test 1 Revision, is due on 4th Sept.