

## **Grade 12 Maths : April – overview**

All page and exercise number refer to your new Maths textbook : Mind Action Series Mathematics – Grade 12

1. Complete all Trigonometry except 2D and 3D applications.
2. Study and complete Analytical Geometry (chapter 7, p197)

### **1. Complete Trigonometry (p141 Chapter 5)**

- a. Trig equations (exercise 10),
- b. identities not being valid (exercise 11)
- c. Read through trig graphs (p172) and do exercise 12
- d. Also do revision as issued from past papers.
- e. Do the revision / extension exercise (p179) - there are lots of exam type questions and you would benefit from doing these.
- f. Do Trig quiz on google classroom (see attached in pdf format)

### **2. Analytical Geometry (p197 chapter 7)**

- a. Read through overview – focus on basic equations and applications of distance; midpoint; gradient; equation of a straight line.
- b. Equation of a circle: go through attached video (gr 12 an geom part 1 a and 1b) and do Exercise 1: finding the equation of the circle (leave out c9)
- c. Equations not in standard form: go through attached video (gr 12 an geom part 2) and do Exercise 2: finding the radius and centre (completing the square)
- d. Tangents to the circle: go through attached video (gr 12 an geom 2 part 3 and part 4) and do Exercise 3: working with tangents
- e. Go through video about touching circles (gr 12 an geom 2part 5) . Read through examples (p211 – 215) and do exercise 4.
- f. Complete Analytical Geometry – examples of exam questions. Do Exercise 5.
- g. Do the revision / extension exercise (p221 – 224)

h. Do Analytical geometry quiz on google classroom (see attached in pdf form)