

## REVISION LIST – EDEXCEL PAPER 3 – TUESDAY 13<sup>TH</sup> JUNE 2017

**Bold** = Prioritise this. This list is NOT exhaustive and I CANNOT guarantee I've covered every topic that may crop up.

*To get a 4/5 at foundation, focus revision on the following topics*

### **NUMBER**

Negative numbers  
Negative indices  
Ordering decimals  
Standard form calculations

### **ALGEBRA**

#### **Changing the subject**

Understand equation/expression/formula  
Coordinates – mid-points? Distance between two points?  
Plotting graphs  
Interpret the gradient and intercept of a straight line graph

#### **Solving linear equations with unknowns on both sides**

Forming and solving equations (angles?)

#### **Solve a pair of linear simultaneous equations**

Solve a linear inequality

### **RATIO/PROPORTION**

#### **Reverse percentages**

Compound measures (density)  
Best buys

### **SHAPE**

#### **Compass constructions**

Angle relationships – explaining solutions geometrically – particularly parallel lines and circle theorems  
Congruence (SSS, SAS, AAS, RHS)

#### **Right angled trigonometry (maybe look at multi-stage questions including Pythagoras?)**

Transformations – enlargements, translations  
Understand the different parts of a circle  
Faces, Edges, Vertices

#### **Area of trapezium and compound shapes**

Volume/Surface area

### **HANDLING DATA + PROBABILITY**

Tree diagrams  
Frequency polygons

#### **Venn Diagrams**

#### **Time series**

#### **Mean from a frequency table**

#### **Stem and leaf diagrams (finding the median, range etc)**

*At Higher Tier – all of the foundation PLUS....*

## **NUMBER**

### **Combinations**

Surds

Bounds of accuracy for calculations (for example if  $a = b/c$  what are the bounds of accuracy of  $a$ )

## **ALGEBRA**

### **Using the quadratic formula**

### **Functions – composite and inverse**

Exponential functions (eg, given 2 points find  $a$  and  $b$  such that  $y = a^{bx}$ )

Estimate the gradient from a graph and interpret (velocity-time graphs or financial graphs?)

Completing the square

### **Iteration**

### **Quadratic inequalities**

Geometric sequences

### **Estimating the area under a curve (and in context?)**

### **Changing the subject when the subject appears more than once.**

## **SHAPE**

Negative enlargements

Bearings

Similarity applied to area and volume

### **Sine and cosine rules**

### **Three dimensional trigonometry**

## **HANDLING DATA + PROBABILITY**

### **Box and whisker diagrams – compare and contrast 2**

**Capture/Recapture method** (eg in a pond, 100 fish are captured, tagged and released. In a further sample 20 are captured and 2 are tagged – estimate the fish population of the lake)

Drawing a cumulative frequency diagram

Drawing a histogram