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<b>Mock Set 4 – Autumn 2018</b>									
(Time: 1 hour 30 minutes)					Paper Reference <b>1MA1/2H</b>				
<b>Mathematics</b> <b>Paper 2 (Calculator)</b> <b>Higher Tier</b>									
<b>Solutions</b>									
You must have: Ruler graduated in centimetres and millimetres, protractor, pair of compasses, pen, HB pencil, eraser, calculator. Tracing paper may be used.									Total Marks

### Instructions

- Use **black** ink or ball-point pen.
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- Answer **all** questions.
- Answer the questions in the spaces provided – *there may be more space than you need.*
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- Diagrams are **NOT** accurately drawn, unless otherwise indicated.
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- If your calculator does not have a  $\pi$  button, take the value of  $\pi$  to be 3.142 unless the question instructs otherwise.



### Information

- The total mark for this paper is 80
- The marks for **each** question are shown in brackets – *use this as a guide as to how much time to spend on each question.*

### Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Try to answer every question.
- Check your answers if you have time at the end.

Turn over ►

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# Pixel Maths Mock Exam November 2014 Calculator Paper

**Phil Salmon, Daniel Chappard, Andrew  
Anthony Pitsillides**



## **Pixel Maths Mock Exam November 2014 Calculator Paper:**

### **Putting the "Why" Back into Bone "Archytecture"** Phil Salmon, Daniel Chappard, Andrew Anthony

Pitsillides, 2017-07-27 A large literature exists on trabecular and cortical bone morphology. The engineering performance of bone implied from its 3d architecture is often the endpoint of bone biology experiments being clinically relevant to bone fracture. How and why does bone travel along its complex spatio temporal trajectory to acquire its architecture? The question why can have two meanings. The first teleological why is an architecture advantageous is the domain of substantial biomechanical research to date. The second etiological how did an architecture come about has received far less attention. This Frontiers Bone Research Topic invited contributions addressing this etiological why: what mechanisms can coordinate the activity of bone forming and resorbing cells to produce the observed complex and efficient bone architectures. One mechanism is proposed: chaotic nonlinear pattern formation (NPF) which underlies in a unifying way natural structures as disparate as trabecular bone, swarms of birds flying or shoaling fish, island formation, fluid turbulence and others. At the heart of NPF is the fact that simple rules operating between interacting elements multiplied and repeated many times lead to complex and structured patterns. This paradigm of growth and form leads to a profound link between bone regulation and its architecture: in bone, the architecture is the regulation. The former is the emergent consequence of the latter. Whatever mechanism does determine bone's developing architecture has to operate at the level of individual sites of formation and resorption and coupling between the two. This has implications as to how we understand the effect on bone of agents such as gene products or drugs. It may be for instance that the tuning of coupling between formation and resorption might be as important as the achievement of enhanced bone volume. The ten articles that were contributed to this Topic were just what we hoped for: a snapshot of leading edge bone biology research which addresses the question of how bone gets its shape. We hope that you find these papers thought provoking and that they might stimulate new ideas in the research into bone architecture, growth and adaptation and how to preserve healthy bone from gestation and childhood until old age.

## Adopting the Track of Appearance: An Emotional Symphony within **Pixel Maths Mock Exam November 2014 Calculator Paper**

In some sort of consumed by screens and the ceaseless chatter of instant connection, the melodic beauty and emotional symphony developed by the prepared term usually disappear in to the background, eclipsed by the relentless sound and distractions that permeate our lives. However, located within the pages of **Pixel Maths Mock Exam November 2014 Calculator Paper** a stunning literary prize full of fresh emotions, lies an immersive symphony waiting to be embraced. Constructed by an outstanding composer of language, that fascinating masterpiece conducts visitors on a mental journey, well unraveling the concealed melodies and profound impact resonating within each cautiously crafted phrase. Within the depths with this moving assessment, we shall discover the book is main harmonies, analyze its enthralling publishing type, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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