



**Year 10**

**Revision Guides**

**November 2019 Exams**

# Geography

## (1 exam - 40mins)

### Changing Cities

- Urbanisation is a global process.
  - Contrasting trends in urbanisation over the last 50 years in different parts of the world (developed, emerging and developing countries).
  - How and why urbanisation has occurred at different times and rates in different parts of the world (developed, emerging and developing countries) and the effects.
- The degree of urbanisation varies across the UK
  - Distribution of urban population in the UK and the location of its major urban centres.
  - Factors causing the rate and degree of urbanisation to differ between the regions of the UK Birmingham.
- The context of the chosen UK city influences its functions and structure.
  - Site, situation and connectivity of the chosen UK city in a national (cultural and environmental), regional and global context.
  - Chosen UK city's structure (Central Business District (CBD), inner city, suburbs, urban-rural fringe) in terms of its functions and building age.
- The chosen UK city is being changed by movements of people, employment and services.
  - The sequence of urbanisation, suburbanisation, counter-urbanisation and re-urbanisation processes and their distinctive characteristics for the chosen UK city.
  - Causes of national and international migration and the impact on different parts of the chosen UK city (age structure, ethnicity, housing, services).
- Globalisation and economic change create challenges for the chosen UK city that require long-term solutions.
  - Key population characteristics of the chosen UK city's that is available from the Census and reasons for population growth or decline.
  - Causes of deindustrialisation (globalisation, de-centralisation, technological advances and developments in transport) and impacts on the chosen UK city.
  - How economic change is increasing inequality in the city and the differences in quality of life.
  - Recent changes in retailing and their impact on the chosen UK city: decline in the Central Business District (CBD), growth of edge- and out-of-town shopping and increasing popularity of internet shopping).
  - The range of possible strategies aimed at making urban living more sustainable and improving quality of life (recycling, employment, education, health, transport, affordable and energy-efficient housing) for the chosen UK city.

## Physical Education

Please see Mr Hill for further revision materials.

- The Skeletal System
  - Synovial Joints
  - Movements at joints
  - The Muscular system
  - Roles of muscles
  - Lever Systems
  - Planes of Movement and axes of rotation
  - The Heart and Circulatory system
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## Maths Set 1 (60 min exam)

- Simplify algebraic expressions
- Expanding brackets – single and double
- Factorise – common factor, quadratic trinomials (including where  $a \neq 1$ ) and difference between squares
- Substitution into expressions and formulae
- Solve linear equations
- Set up equations and solve
- Solve quadratic equations using factorising, the formula and graphical methods
- Simultaneous equations – elimination method
- Circles – area and circumference of whole circles and parts of circles
- Sectors – area and perimeter
- Circle theorems
- There will also be some questions on work that was done last year covering the following topics > Fractions and percentages > Money problems > Angles (on a line, at a point, in a triangle, in a quadrilateral) > Angles in parallel lines

## **Maths Set 2 (60min exam)**

- Add, subtract, multiply and divide whole numbers including money problems
  - Calculations with negative numbers
  - Angles on a line, in a triangle, in a quadrilateral
  - Simplify algebraic expressions.
  - Expanding brackets – single and double
  - Factorise – single and double brackets
  - Substitution into expressions and formulae
  - Solve linear equations
  - Solve quadratic equations
  - Simultaneous equations
  - Circles: Area and perimeter
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## **Religious Studies**

The exam will be on everything we have learned on Christian beliefs this half term - nature of God, Trinity, Salvation, the challenge of evil and suffering and theodicy responses, eschatological beliefs, Jesus Christ as Messiah, Lord, Saviour.

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## **History**

Please revise for one exam that will feature questions on both your Henry VIII module (taught by Miss Dunsmore) and your Medicine module (taught by Mrs Eden). You should revise everything that you have learnt up to October half term. For the Henry VIII module this is 1.1 Henry VIII, Renaissance Prince and 1.2 the rise of Wolsey and his policies. For Medicine this is 1.1 Medieval ideas about the cause of disease; 1.2 Medieval approaches to treatment and prevention and 1.3 dealing with the Black Death, 1348-49. Please make use of the work you have done in lessons and your textbooks to help you revise. There are example exam questions and revision tasks in the textbook. You also have a purple revision guide for each module that you can use.

## Chemistry

The plan is to test all year 10 pupils on the GCSE work we have been learning since January of Year 9.

Dual Award students should revise p82-89, p95-102 and p111-116 in their combined science revision guides.

Triple scientists should learn pages 12-33 and p41-46 of their separate chemistry revision guides.

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## Physics

### Combined science

P1

- Matter
- The history of the atom Density Particle theory and states of matter
- Specific heat capacity
- Specific latent heat Pressure of gases

P2

- Forces, speed and velocity
- Acceleration
- Investigating motion
- Distance-time graphs
- Velocity-time graphs
- Forces and free-body diagrams
- Scale diagrams
- Newton's 3 laws of motion
- Momentum and conservation of momentum

Mass, weight and gravity Pages 15 to 169 in the revision guide.

## Separate Sciences

### P1

- Matter
- The history of the atom
- Density
- Particle theory and states of matter
- Specific heat capacity
- Specific latent heat
- Pressure of gases

### P2

- Forces Speed and velocity
- Acceleration
- Investigating motion
- Distance-time graphs
- Velocity-time graphs
- Forces and free-body diagrams
- Scale diagrams
- Newton's 3 laws of motion

### P3

- Electricity
- Static electricity
- Electric fields
- Current and potential difference
- Circuits
- Resistance and Ohm's law
- IV Characteristics
- Circuit devices
- Revision guide pages 12 to 28, and 42 to 47