

# Gcse Further Maths Past Papers

## F.P Maths (past paper)

## Chapter (7) Scalar and Vector Quantities

### 17. (2018-June-P1-Q10)

The points  $A$ ,  $B$ ,  $C$  and  $D$  are such that

$$\overrightarrow{AB} = 5\mathbf{i} + 5\mathbf{j} \quad \overrightarrow{AC} = -2\mathbf{i} + 15\mathbf{j} \quad \overrightarrow{AD} = -7\mathbf{i} + 10\mathbf{j}$$

(a) (i) Find  $\overrightarrow{DC}$  as a simplified expression in terms of  $\mathbf{i}$  and  $\mathbf{j}$ .

(ii) Hence show that  $ABCD$  is a parallelogram.

(4)

(b) Find a unit vector parallel to  $\overrightarrow{BD}$  as a simplified expression in terms of  $\mathbf{i}$  and  $\mathbf{j}$ .

(4)

The point  $E$  lies on  $BD$  and  $BE:ED = 3:10$

(c) Find  $\overrightarrow{AE}$  as a simplified expression in terms of  $\mathbf{i}$  and  $\mathbf{j}$ .

(2)

The point  $F$  is such that  $DCF$  and  $AEF$  are both straight lines.

(d) Find  $DC:CF$

(6)

### 18. (2019-January-P2-Q3)

Referred to a fixed origin  $O$ , the position vectors of the points  $P$  and  $Q$  are  $(5\mathbf{i} + 6\mathbf{j})$  and  $(3\mathbf{i} - 4\mathbf{j})$  respectively.

(a) Find, as a simplified expression in terms of  $\mathbf{i}$  and  $\mathbf{j}$ ,  $\overrightarrow{PQ}$ .

(2)

(b) Find a unit vector parallel to  $\overrightarrow{PQ}$ .

(2)

The position vector of the fixed point  $R$  is  $(13\mathbf{i} + a\mathbf{j})$ , where  $a$  is a constant.

Given that  $\overrightarrow{QR} = 5\overrightarrow{QP}$

(c) find the value of  $a$ .

(2)

**GCSE Further Maths past papers** are essential resources for students preparing for their examinations. These past papers not only serve as a benchmark for understanding the format and types of questions that may appear on the exam but also provide invaluable practice opportunities. In this article, we will explore the importance of GCSE Further Maths past papers, various strategies for effectively using them, and where to find these resources.

# Understanding GCSE Further Maths

GCSE Further Maths is an advanced qualification that builds upon the core GCSE Mathematics curriculum. It is designed for students who have a strong aptitude for mathematics and are looking to deepen their understanding of mathematical concepts. The course covers a range of topics, including:

- Algebra
- Calculus
- Probability and Statistics
- Geometry
- Vectors and Matrices

This qualification is particularly beneficial for students intending to pursue A-level Mathematics or other STEM-related subjects, as it equips them with the necessary skills and knowledge.

## The Importance of Past Papers

Past papers play a crucial role in exam preparation for several reasons:

### 1. Familiarity with Exam Format

One of the primary advantages of using GCSE Further Maths past papers is that they provide students with a clear understanding of the exam format. By working through these papers, students can become accustomed to:

- The structure of the examination
- The types of questions that are commonly asked
- The marking scheme and how to allocate time effectively during the exam

This familiarity can reduce anxiety and increase confidence on exam day.

## **2. Identifying Knowledge Gaps**

Reviewing past papers allows students to identify areas where they may need further study. As students work through the questions, they can pinpoint topics that are challenging or unfamiliar. This targeted approach to revision helps to maximize study efficiency and improve overall performance.

## **3. Practicing Problem-Solving Skills**

Mathematics is a discipline that requires strong problem-solving skills. Past papers provide a wide range of problems that challenge students to think critically and apply their knowledge in various contexts. This practice is essential, as the ability to solve problems is a key component of success in mathematics.

## **4. Boosting Time Management Skills**

Time management is a critical aspect of exam success. Past papers allow students to practice answering questions within a set timeframe. This practice helps students develop strategies to manage their time effectively during the actual exam, ensuring they can complete all questions to the best of their ability.

## **Strategies for Using Past Papers Effectively**

While GCSE Further Maths past papers are valuable resources, it is essential to use them strategically to maximize their effectiveness. Here are some tips for using past papers in your study routine:

### **1. Start Early**

Begin using past papers well in advance of the exam date. This approach allows for ample time to address any knowledge gaps and reinforces learning. Spacing out practice over several weeks or months is much more effective than cramming in the final days before the exam.

### **2. Create a Study Schedule**

Establish a study schedule that includes regular sessions dedicated to working on past papers. Organize your study sessions by topic, ensuring that

you cover all areas of the syllabus. Consider the following structure:

1. Identify the topics you need to focus on.
2. Allocate specific days for each topic.
3. Incorporate past paper questions related to those topics into your study plan.

This structured approach ensures comprehensive coverage of the material.

### **3. Review Answers Thoroughly**

After completing a past paper, take the time to review your answers carefully. Compare your solutions to the mark scheme to understand where you went wrong and why. This review process is crucial for learning from mistakes and reinforcing correct methods.

### **4. Work in Timed Conditions**

To simulate the actual exam environment, complete past papers under timed conditions. Use a stopwatch or timer to help you practice pacing yourself. This strategy not only helps with time management but also aids in building stamina for the exam.

### **5. Seek Help for Difficult Questions**

If you encounter questions that you find particularly challenging, don't hesitate to seek help. Discuss these questions with teachers, peers, or online forums. Understanding the reasoning behind the solutions will enhance your learning and equip you to tackle similar problems in the future.

## **Where to Find GCSE Further Maths Past Papers**

Finding GCSE Further Maths past papers is easier than ever, thanks to various online resources and educational platforms. Here are some of the best places to locate these papers:

# 1. Exam Board Websites

Most examination boards provide access to past papers on their official websites. The major boards offering GCSE Further Maths include:

- AQA (Assessment and Qualifications Alliance)
- Edexcel
- OCR (Oxford Cambridge and RSA)
- WJEC (Welsh Joint Education Committee)

Visiting these websites allows students to download past papers and mark schemes for free.

# 2. Revision Websites

Numerous educational websites specialize in exam preparation and provide access to past papers, revision notes, and practice questions. Some popular sites include:

- BBC Bitesize
- Maths Genie
- Physics and Maths Tutor
- Revision World

These platforms often offer additional resources, such as video tutorials and interactive quizzes.

# 3. Study Groups and Forums

Joining study groups or online forums can be an excellent way to share resources, including past papers. Websites like The Student Room and Reddit have communities dedicated to GCSE studies, where students can exchange materials and tips.

# Conclusion

In conclusion, GCSE Further Maths past papers are invaluable tools for exam preparation. They help students familiarize themselves with the exam format, identify knowledge gaps, practice problem-solving skills, and enhance time management abilities. By employing strategic approaches to their study routines and utilizing available resources, students can significantly improve their chances of success in their GCSE Further Maths examinations. Whether accessed through exam board websites, revision platforms, or peer collaborations, these past papers should be an integral part of any student's study arsenal.

## Frequently Asked Questions

### **What are GCSE Further Maths past papers used for?**

GCSE Further Maths past papers are used to help students practice and prepare for their exams by providing examples of the types of questions that may appear on the actual test.

### **Where can I find GCSE Further Maths past papers?**

You can find GCSE Further Maths past papers on various educational websites, including exam board sites like AQA, Edexcel, and OCR, as well as revision sites like Maths Genie and Physics and Maths Tutor.

### **How can I effectively use GCSE Further Maths past papers for revision?**

To effectively use past papers for revision, try to simulate exam conditions by timing yourself, review the mark schemes to understand where you went wrong, and focus on topics you find challenging.

### **Are GCSE Further Maths past papers available for free?**

Yes, many GCSE Further Maths past papers are available for free online, especially from official exam board websites and educational resource platforms.

### **What topics are commonly covered in GCSE Further Maths past papers?**

Common topics include algebra, geometry, trigonometry, calculus, statistics, and mathematical reasoning, among others.

## How many past papers should I complete before my GCSE Further Maths exam?

It is generally recommended to complete at least 5 to 10 past papers to gain a thorough understanding of the exam format and question types.

## Can GCSE Further Maths past papers help improve my exam technique?

Yes, practicing with past papers can help improve your exam technique by familiarizing you with the question formats and time management during the exam.

## What is the importance of reviewing mark schemes after attempting past papers?

Reviewing mark schemes is important as it helps you understand how marks are awarded, identify common mistakes, and learn the best methods to approach similar questions in the future.

## Is it beneficial to work on past paper questions with a study group?

Yes, working on past paper questions with a study group can be beneficial as it allows for collaboration, discussion of solutions, and the sharing of different problem-solving strategies.

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## Gcse Further Maths Past Papers

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### Kölner Dom - Deutsche UNESCO-Kommission

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### *Kölner Dom: Rundgang im UNESCO-Welterbe - Welterbetour*

Der Kölner Dom Rundgang führt durch das UNESCO-Welterbe: eine monumentale Kathedrale der Gotik mit kostbarer Ausstattung (Dreikönigenschrein).

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Microsoft's Bing homepage now features a new daily quiz which is intended to drive engagement and broaden the horizons of Bing users with trivia.

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