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## Introduction

This teacher's resource provides a range of teaching and reference materials which have been developed to aid the teaching of the Cambridge International Examinations IGCSE® Computer Science syllabus (0478).

These resources support the *Cambridge IGCSE Computer Science* textbook (by Watson and Williams), which has been endorsed by Cambridge International Examinations.

### Scheme of work

The scheme of work has been devised to follow a logical route through the new IGCSE® Computer Science textbook. Its aim is to complete the course by the end of the second term in the second year of study; this will then allow adequate time for revision and exam practice. It is assumed that students will have 3½ hours per week study time in this topic (total study time over 5 terms: 245 hours, comprising 145 hours for section 1 and 100 hours for section 2). To ensure a good balance, it is also assumed that sections 1 and 2 of the Cambridge syllabus will be taught side by side; the scheme of work will therefore assume 2 hours per week on section 1 of the syllabus (theory) and 1½ hours per week on section 2 of the syllabus (practical). Naturally this can be modified depending on resource allocation and other factors.

The relevant chapter and pages in the textbook and the syllabus references are detailed, as well as activities from the textbook; additional lesson notes are also included.

### Answers

Answers to the end-of-chapter questions and (where relevant) the activities in the textbook are provided.

### Examination-style questions

The Paper 1 examination-style questions with answers will be especially useful for teachers. They are based on the chapters in section 1 of the textbook. Teachers can select questions or question parts to make their own tests, or use the questions as provided. In general the level of difficulty of a question increases as the students work their way through the question. For example, all students should be able to tackle part a (shown with a green dot ●); most students should be able to tackle part b (shown with an orange dot ●); and those students aiming for the top grades should be able to tackle part c (shown with a purple dot ●). Answers for all questions have been provided, using this same colour coding. Sometimes there is additional commentary on the answers.

### Program files

The Python and Java program files are for use with the activities and end-of-chapter questions.

### Additional content in the textbook

Whilst asymmetric encryption is not in the present syllabus it was included in the textbook for two reasons:

- 1 to give a more complete picture on how encryption works (since student discussions may involve ways of improving the security of data by this method)
- 2 it is helpful to include asymmetric encryption when studying security systems on the internet such as SSL and TLS.

**Literature Textbooks** **10 Marks**

III. Multiple Choice Questions based on an extract from drama/prose to test inference, evaluation and vocabulary. Any 1 out of 2 extracts to be done. **(5x1=5)**

IV. Multiple Choice Questions based on an extract from poetry to test analysis and interpretation. Any 1 out of 2 extracts to be done **(5x1=5)**

**Grammar** **10 Marks**

V. Ten Multiple Choice Questions, out of twelve, to be answered (including gap filling/editing/ dialogue writing). Questions shall be based on the following:

- Tenses
- Modals
- Subject – verb concord
- Reported speech
- Commands and requests
- Statements
- Questions
- Determiner
- Use of Passive Voice
- Clauses: Noun, Adverb Clauses of condition and time, Relative Clauses
- Prepositions

**PART B**

**Writing** **10 marks**

I. Writing an Informal Letter on a situation/ Descriptive Paragraph (person, place, event, diary entry) based on visual or verbal cue/s. (word limit 100-120 words)

One out of two questions is to be answered. **(5 marks)**

II. Writing a story based on a given outline or cue/s. (word limit 100-120 words)

One out of two questions is to be answered. **(5 marks)**

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Do you want to learn German but can't afford expensive textbooks and courses? Looking for German worksheets to download and print for practice? There are many great free resources for German language learners (and teachers), but they are not always easy to find. In this post, I have collected some resources that I have found useful in teaching German over the years. Feel free to add your favorite German worksheet resources in the comments below. ... all created by the teacher himself, available for free. Unlike other sites, these worksheets and materials are not in PDF format, but in HTML format, which allows for flexible layout even on smaller screens. Another big plus is that many of the worksheets have an "Answer" button that lets you see the correct answers for that exercise right away. ...deDeutsch und Deutlich offers a downloadable collection of German worksheets created by Lorenz Derung over 30 years of teaching German. There are great worksheets for any grammar topic you can think of, plus helpful exercises for writing, reading, spelling, vocabulary and more. A German textbook publisher has posted a number of free German worksheets and online exercises on their website. Although these resources are intended to be used in conjunction with their official textbooks, students of German can use these worksheets and exercises in everyday practice even without access to the main text. Do you want to learn German but can't afford expensive textbooks and courses? Looking for German language worksheets to download and print for practice? There are many great free resources for students (and teachers) of German, but they are not always easy to find. In this post, I've compiled some resources that have helped me learn German over the years. Feel free to add your favorite German worksheets in the comments below, which were created by the teacher herself and are available for free. Unlike other websites, these sheets and materials are in HTML rather than PDF, allowing for flexible layout even on smaller screens. Another big plus is that many worksheets have an "Answer Key" button that lets you instantly see the correct answers for that exercise. Grammar Worksheets Vocabulary Culture Worksheets Writing Activities Games and more Format: HTML Germanand Clear .deGerman and Clear offers a collection of downloadable German language worksheets developed by Lorenz Derungs over 30 years of teaching German. There are excellent worksheets on every grammar topic imaginable, useful exercises for writing, reading, spelling, vocabulary, etc. The German textbook publisher offers a range of free German worksheets and online exercises on their site. Although these resources are intended to be used in conjunction with their official textbooks, students of German who do not have access to the main text can use these worksheets and exercises for everyday practice. online exercises even include audio to help with understanding and pronunciation. All resources are divided into levels from A1 to C2. Online Worksheets (A1 / A2 / B1 / B2 / C1 / C2) Worksheets (A1 / A2 / B1 / B2 / C1 / C2) Format: PDF/HTMLmeine-deutschbuch.de This is another great source of printable German worksheets with created exercises by Norbert Benssch. Not only does this site offer a complete explanation of German grammar in the form of an online textbook, ideal for students to study on their own, but also verb lists to help you understand conjugation patterns, reading comprehension exercises, videos, and more. still. Grammar worksheets (explanations / exercises) Reading comprehension Online practice format: PDF/HTMLdeutscheite.de Tom's Deutscheite is an excellent resource for self-study as it covers most of the basics, with detailed explanations (in English!) Exercises are linked at the end of each grammar topic along with an answer key. A good way to start browsing this site is to select a topic from the table of contents and read/work through the worksheets. Grammar Worksheets Vocabulary Reading Comprehension Writing Tasks Spelling Worksheets Format: PDF/HTMLdeutsch:thang The website is now offline, but you can still access some of its resources via the WayBackMachine. Another treasure of German students is Deutsch Drang. All materials are created by a German teacher with over 20 years of experience, and there is a lot to discover. You'll find exercises on almost every important topic, from verbs, cases and sentence structures to puzzles and short vocabulary sheets, all broken down into beginner, intermediate and advanced sections. In addition, Deutschdrang also offers a variety of reading comprehension worksheets, for both beginners and intermediates. Grammar Worksheets (Beginner/Intermediate/Advanced) Vocabulary Worksheets Online Exercises (Beginner/Intermediate/Advanced) Reading Comprehension (Beginner/Intermediate) Format: DOC ääääää Home » German Learning Resources 6 » The best German textbooks and resources. A real classic When it comes to learning German, you don't know where to start. This is where a good textbook can save you. Let's take a look at six of the best textbooks for learning German. Table of Contents Why Use German Textbooks Textbooks are not written by some old idiots. They are written by professionals: highly educated native speakers and experienced teachers. The whole job of the authors is to help you become free, and they know the best techniques and exercises to help you learn. This is one area where classroom learning has benefits. Students are led by a (hopefully) qualified teacher using (hopefully) high quality materials. But even if you're self-taught, you can still benefit from a good textbook. Even if you are already traveling in Germany with a "learn by osmosis" mindset, you will benefit from a curriculum designed by experts. How to choose the right German textbook There are hundreds of German textbooks available. One publisher can have dozens of titles. It can be overwhelming. Which one suits you? First think about your level. Are you a beginner (A1-A2), intermediate (B1-B2) or more advanced (C1-C2)? If you're still learning the difference between nominative and accusative, an advanced textbook won't do you any good. Also, a beginner's book won't help if you're almost fluent. Then think about your goal. Why are you learning German? Do you want a general conversation? Are you learning German for a specific purpose, such as study or travel? Or are you just working on grammar? Each guide has a slightly different purpose. think about your age There are books for children and books for older students. You can learn just as well from anyone, but you might feel a little silly doing it. You can also visit VitalSource, a site where you can rent or buy e-books. You have German textbooks, workbooks, conversation books, readers and more, and you have all your purchases on one platform, making it easy and convenient to use multiple books to learn German. 6 classic German textbooks that everyone knows Here are the classics, some of the most famous names in Germany and the USA. These and other books by the same publisher are a selection of proven standards for German as a foreign language. You can't go wrong with any of them. 1. Deutsch Aktuell "Deutsch Aktuell" (literally "Current German") is one of the most popular German textbooks in American high schools. Each chapter focuses on a theme, such as B. Order Sports or Food, while each theme relates to an overarching story with a regular cast of characters. Students who use Deutsch Aktuell preserve the memories of these characters for many years thanks to the Treffen Berlin video series included with the book, available for free on the publisher's website. With three levels to choose from, Deutsch Aktuell provides a solid foundation for beginners in the German language. 2. Come with me! "Comm myth!" ("Come Along") is another American high school favorite, often used in place of or alongside "Deutsch Aktuell", depending on school/district contracts and teachers' preferences. Like "Deutsch Aktuell", each chapter focuses on a specific topic while deepening the grammar. You can search Amazon's inventory for a used hardcover copy in good condition, but you should also look at supplies, especially CDs. You can't learn pronunciation just from a book. 3. Second and Third Year German As the title suggests, this book is most suitable for students who have basic knowledge of the German language and are moving into the second or third year of study. In contrast to "Deutsch Aktuell" and "Komm mit!" However, this book is intended to be a direct introduction to grammar. ... It consists of many short modules with exercises to help you review different forms of grammar, but these modules are not linked by clear themes or engaging stories. "German second and third year" is quite old, but the grammar rules haven't changed much in that time. Since the book hasn't changed much in twenty years, it's easy to find a cheap used copy online if you don't want to order a new one. The old ones are just as good! 4. Midpoint "Midpoint" is owned by the German publisher Klett, so it's easier to order online than to find it in a bookstore. Klett materials are primarily intended for the German market as a second language in Germany and help foreigners with different language backgrounds to learn German. As a result, Midpoint and most of Klett's other books use no English at all; Concepts are explained in plain English and with examples. This makes Zentrum an excellent choice for intermediate and advanced students who want to fully immerse themselves in the German language without using English as a crutch. The chapters contain interesting discussion topics with a range of exercises, many of which repeat exercises used in major German exams such as TestDaF and DSH. 5. The new yellow "German grammar textbook and exercise book" is not a very sexy title. The bright yellow cover makes this book quicker and easier to find, and actually the publishers use "Die Neue Gelbe" and "Gelbe aktuell" as titles to distinguish their two main editions, each a standard workbook for intermediate and advanced levels of German Grammar. to "second and third year German". The Yellow Books are also similar to Mittelpunkt in that they are from the German publisher Hueber Verlag for the German market - meaning readers should be satisfied with a fully immersive text. 6. Good for... Hueber Verlag has a whole catalog of materials in the German language, but their exam preparation books really stand out. If you're looking for a textbook to help you prepare for an important German certification exam like the Goethe Institut exams, look no further. The Fit for a series includes practice tests and study strategies for most major exams, similar to the SAT and ACT prep books in the United States. Again, the text is entirely in German, but isn't your goal to speak fluently anyway? Mixing German learning materials Maybe your teachers never forced you to stick to just one book all year. They had additional worksheets and readings (often taken from other books), videos, audio recordings, or maybe some online resources. Self-study attempts should follow the same approach. Language tutorials and textbooks are a great combination for learning. There are many different programs to suit your learning style. For example, if you like structured resources and want to learn more about grammar and other aspects of the German language, Deutsche Welle is an option you'll want to combine with a textbook. On the other hand, if you want to see everything you learn in textbooks used for real German, FluentU might be a good choice. This program uses authentic German videos such as movie clips and commercials with interactive subtitles and personalized quizzes. Incorporate FluentU into your German learning routine to bring textbook information to life and progress faster. It allows you to experience textbook concepts "in the wild". You don't just have to decide which textbook you will work with either. sampleand never rely on a book to teach you everything. Combine "Deutsch Aktuell" with "second and third year", or combine "Mittelpunkt" with "Die Neue Gelbe", or combine all of the above. Whether you're learning German in the classroom, alone, or on the go, the textbooks offer an expertly designed structure and curriculum that's fun and easy to follow. You can find any of these used books for a few dollars. That's the added benefit of choosing a classic that has been used by millions of students before you! Combine the materials you enjoy and you're well on your way to a solid degree. Science.

