# STUDY Mate

GRADE 11 & 12

Mathematics · Mathematical Literacy · English FAL · Afrikaans FAL · Physical Science · Life Sciences · Accounting · Business Studies

ISSUE 1 2008

**230 DAYS before final exams!**

Department of Education

Learning channel

## Table of contents


Page 1 Letter from the Minister
Message from the DoE
Page 2 Grade 12 – 2008 National Exam Timetable
Page 3 Lessons for learners: 10 things to help you to succeed in the Grade 12 examinations
Diet and academic performance
Page 4 Tips for Teachers
Tips for Toppies


## Dear readers of Study Mate

Naledi Pandor

I am very pleased to introduce to you, once again, your very own Study Mate. As you are aware Study Mate was first published in July 2007 by the Department of Education and has become a much respected publication for learners and teachers. I have heard some wonderful stories from learners and teachers around the country who used Study Mate in 2007. They have informed me of the big part it played during their studying and preparation for the 2007 final examinations. Together with their textbooks, teachers, parents and other resources it has become an effective and efficient tool for success.

I am therefore proud to once again be able to offer this wonderful opportunity to our Grade 11 and 12 learners and hope that you will make use of this valuable resource. The first edition is filled with information and assistance to begin your journey to success. From this week, and for each of the next 32 weeks until the end of October 2008, you will find valuable information, question papers and answers for Grade 11 and 12.

The Department of Education intends awarding prizes for those learners who make use of and keep all 33 issues of Study Mate during 2008. So start preparing for your future today. Remember you have only 230 days before the final examinations. Each week Study Mate will remind you of the number of days left before examinations begin, so let the countdown begin as we work our way to success.

Teachers and parents, I encourage you to buy a copy of your local newspaper each week or find out from your district office where you can get a free copy of Study Mate and help young people to prepare for success at the end of 2008. If you receive a copy and are not a parent, why not adopt a learner in your community and pass on this valuable information to him or her.

Congratulations on your intention to begin today. With the aid of Study Mate, I wish you well as you work towards a successful 2008.

*Naledi Pandor*

**Minister of Education**

## Message from the Department of Education

There are 230 days before the Grade 12 class of 2008 starts to write their final examinations. Over the next 33 weeks the Department of Education and Learning Channel will help you to plan for success. Every week we will publish exam exemplars and exam guidelines developed by the examination panels at the DoE. Start today. Read this edition to make sure you plan to succeed and then get the next 32 editions to improve your chances of success. All documents mentioned and used in the first and subsequent editions are available from the DoE or can be found on the following websites:
**DoE:** www.education.gov.za or
**Thutong:** www.thutong.org.za

# 2008 National Senior Certificate (NSC) Examination Timetable

In recent years the Grade 12 examinations have started in early October. This has meant that many precious days are lost to teaching and learning. Learners have had a number of days between examinations, which are not maximally used. For Grade 12 learners and other learners in high schools this has had negative consequences for quality education and high-level achievement.

In 2008 the Grade 12 examinations will start in the first week of November. This maximises your opportunity to learn and succeed. Please study the timetable and begin to prepare for success today. You may have to write two examinations on one day but remember this is a requirement at university and in other countries. Also remember in the workplace there are no half-days.

Writing two exams per day will mean good time management and healthy bodies and minds. Get in shape for success today. We will provide you with loads of tips and exemplar papers to help you. Get your Study Mate every week from now until end-October.

1. The first National Certificate (NSC) examination, based on the National Curriculum Statement (NCS) will be administered in Grade 12 in November 2008.
2. The Inter-Provincial Examination Committee (IPEC) compiled the National Examinations Timetable after consultation with all education stakeholders and religious organisations. This timetable was endorsed by the Heads of Education Committee (HEDCOM) and finally approved by the Council of Education Ministers (CEM).
3. Subjects are scheduled to be written, from 3 November 2008 to 3 December 2008.
4. Two sessions are scheduled everyday. The morning session will commence at 9:00 and the afternoon session will commence at 14:00.
5. Information Technology Paper 1 (Practical) and Computer Applications Technology, Paper 1 (Practical), together with all the Non Official Languages will be written between 29 and 31 October 2008.

| WEEK 0 | 09:00 | 14:00 |
|---|---|---|
| Wednesday 29/10 | German, Portuguese<br>Hebrew P1 (2hrs) | Hindi, Gujarati, Urdu, Tamil, Arabic,<br>French, Italian, Spanish, Latin P1 (2hrs) |
| Thursday 30/10 | Computer Application Tech P1 (3hrs) Practical | Hindi, Gujarati, Urdu, Tamil, Arabic,<br>French, Italian, Spanish, Latin P2 (2hrs) |
| Friday 31/10 | Information Technology P1 (3hrs) Practical | German, Portuguese, Hebrew P2 (2hrs) |
| **WEEK 1** | **09:00** | **14:00** |
| Monday 3/11 | English Home Lang P1 (2hrs)<br>First and Second Add Language P1 (2hrs) | Computer Application Tech P2 Theory (3hrs) |
| Tuesday 4/11 | Accounting (3hrs) | |
| Wednesday 5/11 | isiZulu, isiXhosa, Siswati, isiNdebele Home Lang P1 (2hrs)<br>First and Second Add Language P1 (2hrs) | Information Technology P2 Theory (3hrs) |
| Thursday 6/11 | Afrikaans Home Lang P1 (2hrs)<br>First and Second Add Language P1 (2hrs) | Consumer Studies (3hrs) |
| Friday7/11 | Mathematics P1 (3hrs)<br>Mathematical Literacy P1 (3hrs) | Religion Studies P1 (2hrs) |
| **WEEK 2** | **09:00** | **14:00** |
| Monday 10/11 | Mathematics P2 (3hrs)<br>Mathematical Literacy P2 (3hrs) | |
| Tuesday 11/11 | Afrikaans Home Lang P2 (2½hrs)<br>First and Second Add Language P2 (2hrs) | Sepedi, Sesotho, Setswana, Xitsonga, Tshivenda<br>Home Lang P1 (2hrs)<br>First and Second Add Language P1 (2hrs) |
| Wednesday 12/11 | Economics (3hrs) | Afrikaans Home Lang P3 (2½hrs)<br>First Add Lang P3 (2½hrs) |
| Thursday 13/11 | English Home Lang P2 (2½hrs)<br>First and Second Add. Language P2 (2hrs) | |
| Friday 14/11 | Physical Science (Physics) P1 (3hrs) | Religion Studies P2 (2hrs)<br>Dance Studies (3hrs) |
| **WEEK 3** | **09:00** | **14:00** |
| Monday 17/11 | Physical Science (Chemistry) P2 (3hrs) | Tourism (3hrs)<br>Mechanical Technology (3hrs) |
| Tuesday 18/11 | isiZulu, isiXhosa, Siswati, isiNdebele Home Lang P2 (2½hrs)<br>First and Second Add Language P2 (2hrs) | Dramatic Arts (3hrs) |
| Wednesday 19/11 | Geography (Theory) P1 (3hrs) | Geography (Map work) P2 (1½hrs) |
| Thursday 20/11 | Sepedi, Sesotho, Setswana, Xitsonga, Tshivenda Home Lang P2 (2½hrs)<br>First and Second Add Lang P2 (2hrs) | Civil Technology (3hrs) |
| Friday 21/11 | Life Sciences P1 (2½hrs) | Sepedi, Sesotho, Setswana, Xitsonga, Tshivenda<br>Home Lang P3 (2½hrs)<br>First Add Language P3 (2½hrs) |
| **WEEK 4** | **09:00** | **14:00** |
| Monday 24/11 | Life Sciences P2 (2½hrs) | Design (3hrs) |
| Tuesday 25/11 | Business Studies (3hrs)<br>Electrical Technology (3hrs) | English Home Lang P3 (2½hrs)<br>First Add Lang P3 (2½hrs) |
| Wednesday 26/11 | History P1 (3hrs) | Agricultural Technology (3hrs)<br>Visual Arts (3hrs) |
| Thursday 27/11 | Agriculture Science P1 (2hrs) | Engineering Graphic and Design P1 (2hrs) |
| Friday 28/11 | History P2 (3hrs) | isiZulu, isiXhosa, Siswati, isiNdebele<br>Home Lang P3 (2½hrs)<br>First Add Lang P3 (2½hrs) |
| **WEEK 5** | **09:00** | **14:00** |
| Monday 1/12 | Agriculture Science P2 (2hrs)<br>Music P1 Theory (3hrs) | Engineering Graphic and Design P2 (3hrs) |
| Tuesday 2/12 | Agricultural Management (2½ hrs)<br>Music P2 Comprehension (1½hrs)<br>Hospitality Studies (3hrs) | |
| Wednesday 3/12 | Mathematics P3 (2hrs) | |

learning channel

# 10 things to do to succeed in the Grade 12 examinations

**Check how ready you are for your matric examinations.**

## Did you know?

1. **The final matric timetable is out**
   See the timetable opposite and start to plan now. There are sometimes two exams on one day so you will have to be super sharp and alert. See page 2.

2. **There are 230 days to the start of final exams**
   This includes all weekends and holidays. Start today and work everyday. Set targets for achievement. See the block on results on the right.

3. **There are 160 days of school left before the exams begin**
   Do not miss one day. Keep healthy and alert (See below). Listen to your teachers. They have done this before and will help you succeed.

4. **Reading is a hot skill**
   Reading will change your life. Read at least 1 000 words everyday. Read everything you can get your hands on. Read accurately and quickly.

5. **Writing is power. But it requires practice**
   We are all judged, every day, on our writing – we can inspire, impress, persuade, congratulate and express love with writing. Write at least 400 words everyday – carefully, accurately and beautifully.

6. **Textbooks are an essential student companion**
   Have you got a textbook for each subject? Make sure you do and that you work systematically though your textbooks. Don't wait for your teacher to explain it all. Look at what you have to cover for the year and plan accordingly.

7. **Your BMI can help you in matric**
   Your Body Mass Index (BMI) is an indication of how healthy you are. Calculate your BMI and then exercise and eat healthily throughout the year to keep an optimum BMI.

8. **Academic work requires concentration and focus**
   Everyday you should be engaged in intensive, focused, individual academic work. Turn off iPods, music centres, the TV, the cellphone and have an intensive and rewarding academic workout everyday. Build your brain cells and be the envy of all your friends.

9. **Good vibes are good for success**
   Surround yourself with positive, happy people who want you to succeed. Your family and friends will be important in supporting you in the next 230 days. Be grateful for their support.

10. **Matric success requires planning and hard work**
    Start planning and working today. Attend school everyday. Do homework every day. Read everyday Write and calculate everyday. Draw up a year plan before the end of March and stick to it.

**How did you do? Count up the ticks in the right hand column.**

**1 – 2:** Get help urgently

**3 – 4:** Start planning today

**5- 6:** You are on your way. Intensify your efforts

**7 -8:** You are well-organised and nearly ready for success

**9 – 10:** You're doing great. Help someone else to get organised for success

**It is important to know the codes and percentages for recording and reporting in Grades 10-12**

| Rating code | Description of competence | Percentage |
|---|---|---|
| 7 | Outstanding achievement | 80-100 |
| 6 | Meritorious achievement | 70-79 |
| 5 | Substantial achievement | 60-69 |
| 4 | Adequate achievement | 50-59 |
| 3 | Moderate achievement | 40-49 |
| 2 | Elementary achievement | 30-39 |
| 1 | Not achieved | 0-29 |

**Aim for the highest mark possible!**

# Diet and academic performance

## Did you know?

Your diet can affect your ability to perform academically. Malnutrition (inadequate diet, hunger, nutritional deficiencies) can result in decreased attentiveness, motivation and other behaviors that affect school performance. Even short-term nutritional deficiencies can influence one's ability to concentrate and to perform complex tasks. Skipping even one meal can negatively affect one's problem-solving ability and low energy intake at breakfast can have a negative effect on creativity. Deficiencies in specific nutrients such as iron also have an immediate effect on the ability to concentrate.

**Body Mass Index** (BMI) is an indicator of the level of under- or over-nutrition (total body fat) compared to an individual's ideal weight. It is calculated using a person's height and weight in the following formula: weight in kg divided by height in metres squared (weight (kg)/height $(m)^2$). A BMI measure of 20-25 is considered healthy.

**Body Mass Index norms**

| BMI norms (17-26 years of age) | Rating |
|---|---|
| under 20 | Underweight |
| 20–25 | Healthy |
| 25–30 | Overweight |
| Over 30 | Obese |

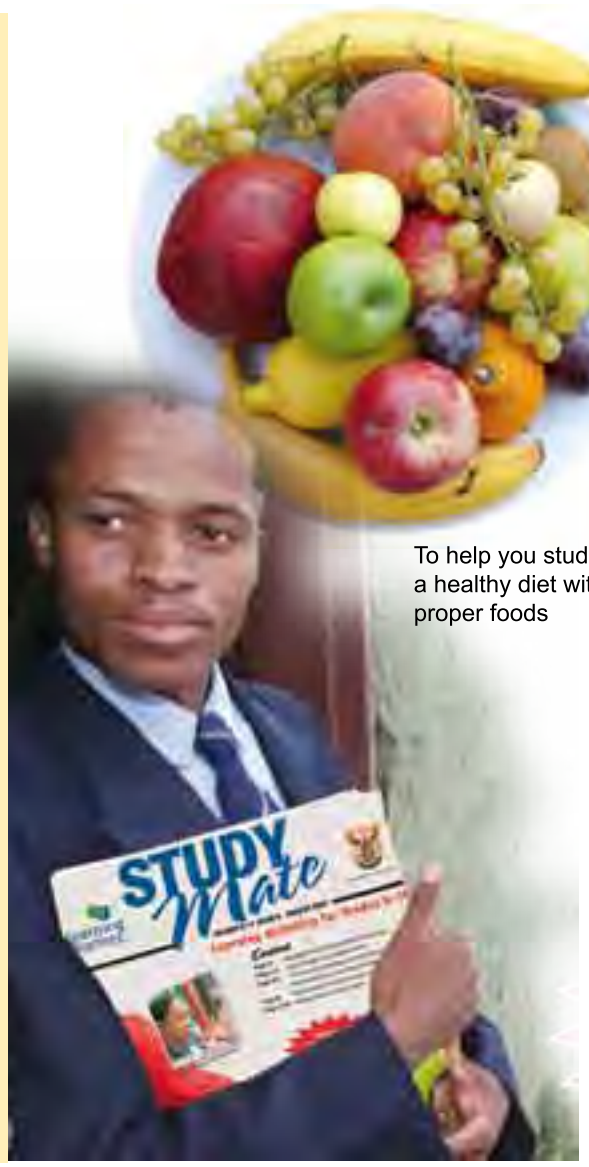
**How to calculate Body Mass Index**

The formula for calculating BMI is:

$$\text{BMI} = \frac{\text{weight (kg)}}{\text{height (m)}^2}$$

**Examples**

- The BMI of an individual who weighs 86 kg and is 1,80 m tall is 86 kg divided by $(1{,}8\ m)^2$: BMI = $86(1{,}80)^2$ = 26,5 = overweight
- The BMI of an individual who weighs 58 kg and who is 1,63 m tall is 58 kg divided by $(1{,}63\ m)^2$: BMI = 21,8 = healthy weight range




To help you study maintain a healthy diet with the proper foods

learning channel

## Tips for teachers

If you are a teacher, especially a high school teacher, use the Study Mate to inspire and prepare your learners to succeed in Grade 12. Preparation for Grade 12 begins in Grade 10. If learners wish to succeed, they must read, write and calculate every day. Remind your learners that every time they read or write, they are preparing for success in Grade 12 and beyond. Even if the assignment or task does not count for marks, every time they write they are practising and preparing for success. Remember: practice makes perfect and the more you practise the luckier you get.

Grade 10 – 12 teachers have you got the following key tools to assist your learners to succeed?

**National Senior Certificate Policy**
- ▲ Requirements for Grade 10 and 11 promotion
- ● Requirements for Grade 12 certification

**National Protocol on Assessment (Grades R-12)**
- ▲ Sets out requirements for assessment in each grade

**National Curriculum Statement: Subject Statement**
- ▲ These set out the content to be taught in each of the grades

**Learning Programme Guideline**
- ▲ Provides advice on teaching the new subjects and provides 40-week schedules to assist with planning and pace

**Subject Assessment Guidelines**
- ▲ Provide requirements for internal and external assessment

**Exemplar question papers for Grade 12**
- ▲ These exemplar papers have been set by the DoE examining panels and provide excellent guidance on the look and feel of the November 2008 examinations and the standard of the 2008

**Examination Guidelines**
- ▲ Examination Guidelines provide guidance from the examining panels on the examinations to be written in November 2008 in the following subjects: Accounting, Civil Technology, Engineering and Graphic Design, Geography, Information Technology, Life Sciences, Mathematical Literacy and Physical Sciences

**Performance Assessment Tasks**
- ▲ Learners in subjects with a practical component must complete Performance Assessment Tasks (PAT). The PAT marks are a component of the final marks. The following subjects have a practical component: Agriculture Management Practice, Agriculture Technology, Computer Applications Technology, Dance, Design, Dramatic Art, Music, Visual Art, Information Technology, Consumer Studies, Hospitality, Tourism, Civil Technology, Electrical Technology, Engineering Graphics and Design and Mechanical Technology. The PATs for these subjects were distributed in 2007 and our learners should be making good progress on them by now.

## Tips for toppies

Are you a parent, grandparent, guardian, older sibling or friend of a grade 12 learner? Here are some tips to help them succeed.

- Encourage learners to do homework and study every day
- Find a comfortable, quiet space for learners to study
- Know what is expected at schools for learners (see the tables below for the formal assessment tasks for Grade 10, 11 and 12 learners)
- Support learners throughout the year – spend time with them and encourage them
- Ensure that learners eat well, exercise and have sufficient sleep

A lack of sleep negatively affects concentration

**Number of Formal Recorded Assessment Task for Grade 10-11**

| SUBJECTS | | TERM 1 | TERM 2 | TERM 3 | TERM 4 | TOTAL |
|---|---|---|---|---|---|---|
| Language 1: Home Language | | 4 | 4* | 4 | 4* | 16 |
| Language 2: | HL | 4 | 4* | 4 | 4* | 16 |
| | FAL | 4 | 4* | 4 | 4* | 16 |
| Life Orientation | | 1 | 1 | 1 | 2 | 5 |
| Mathematics or Maths Literacy | | 2 | 2* | 2 | 2* | 8 |
| Subject choice 1 | | 2 | 2* | 2 | 1* | 7 |
| Subject choice 2 | | 2 | 2* | 2 | 1* | 7 |
| Subject choice 3 | | 2 | 2* | 2 | 1* | 7 |

** One of these tasks must be an examination*

**Number of Formal Recorded Assessment Task for Grade 12**

| SUBJECTS | | TERM 1 | TERM 2 | TERM 3 | TERM 4 | TOTAL |
|---|---|---|---|---|---|---|
| Language 1: Home Language | | 5 | 5* | 4* | | 14 |
| Language 2: | HL | 5 | 5* | 4* | | 14 |
| | FAL | 5 | 5* | 4* | | 14 |
| Life Orientation | | 1 | 2 | 2 | | 5 |
| Mathematics or Maths Literacy | | 3 | 2* | 2* | | 7 |
| Subject choice 1 | | 2 | 2* | (2*) 3* | | (6#) 7 |
| Subject choice 2 | | 2 | 2* | (2*) 3* | | (6#) 7 |
| Subject choice 3 | | 2 | 2* | (2*) 3* | | (6#) 7 |

** One of these tasks in Term 2 and/or Term 3 must be an examination*

**Grade 11's this is also for you. Go through these pages and see how ready you are for next year!**