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PHYSICAL SCIENCES

MATRIC

STUDY PLAN TO ACE FINALS

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PHYSICAL SCENCES
STUDY GUIDES TO ACE THAT EXAM!

MATRIC 2025
14 DAY STUDY PLAN TO ACE THE FINALS

GOAL/AIM	**TO IMPROVE YOUR SYMBOL** We *at PhysBuddy* believe that there is a 10-20% window of mark increase possibility between the trials and the finals Use your time wisely and give it your best shot!!! For leaners who scored 30-40% in the trials there is a great possibility of even a 30% increase in finals if you diligently follow this plan!
STRATEGY	**PRACTICE AS MANY PAST PAPER QUESTIONS AS YOU CAN FOR EACH SECTION** *PhysBuddy* contains A VARIETY of DIFFERENT TYPES of questions FOR EACH SECTION specifically selected by us from past papers (National and Provincial) including step by step solutions. Complete both books and you are sure to ace it!!
TIME	**Set aside 2 -4 hours a day for Physical Sciences**. IN OCTOBER STUDY LEAVE • If you are already achieving a B symbol, then 2 hrs daily is sufficient • Achieving less than 60% - work for 3-4 hours minimum daily
DON'T HAVE *Physbuddy?*	Purchase from us (physbuddy@gmail.com) only while stocks last

FAQ

Is it too late for me to buy and use Physbuddy?

ANSWER

NOT TOO LATE!

It is the best tool to get you prepared for the finals. You will use it EVERYDAY TO PREPARE FOR FINALS

Instead of looking for questions from past papers and guessing which ones are good practice…. Follow our guide!

We have hand -picked a wide variety in of questions from different provinces and years and included them in Physbuddy

NOTE!!

- Use the 14- day plan as a GUIDE
- You do not have to follow the same order
- Start with your weakest sections
- A blank grid is provided for you at the end to use to plan YOUR PERSONAL STUDYING

DO NOT COMPLETE THE QUESTIONS IN ORDER!!!

Do few from EACH QUESTION TYPE ON CHECKLIST

- If possible complete all the questions.
- If not, do as many as possible from each question type
- Make sure you understand what you are doing
- Those who have a copy of *PhysBuddy* from early in the year and have already completed most of the questions in *PhysBuddy* … you should have achieved your A symbol in the trials.
- You should aim to complete both books as well as additional past papers and multiple-choice questions recommended by us.

MATRIC 2025 - 14 DAY PLAN TO ACE PHYSICAL SCIENCES

MON	TUES	WED	THURS	FRI	SAT	SUN
AFTER TRIALS – REST COMPLETELY A FEW DAYS 5-6 DAYS CATCH UP ON SLEEP AND MAKE A LIST OF YOUR WEAK SECTIONS *THIS PLAN IS FELXIBLE. ADJUST IT TO SUIT YOUR NEEDS*						
- The plan below allocates1 day per topic due to the short time available before finals - Start with your weakest sections and take more than 1 day if needed as you may be strong in some topics						
6 OCT **DAY 1** **P2** **Electrochem** **Galvanic cell**	7 **DAY 2** **P2** **Electrochem** **Electrolytic cell**	8 **DAY 3** **P2** **Rates Of Reaction**	9 **DAY 4** **P2** **Acids And Bases**	10 **DAY 5** **P2** **Organic Chem**	11 **DAY 6** **P2** **Equlibrium**	12 **DAY 7** **P1** **Electro Statics**
13 **DAY 8** **P1** **Circuits**	14 **DAY 9** **P1** **Newtons Laws**	15 **DAY 10** **P1** **VPM**	16 **DAY 11** **P1** **Doppler** **Momentum**	17 **DAY 12** **P1** **Work Energy** **Power**	18 **DAY 13** **P1** **Electro Magnetism**	19 **DAY 14** **P1** **Photoelectric Effect**
Continue daily with at least 1-2 hours of Physical Sciences EVERY DAY or every second day right until your Physical Sciences Paper **Practice the sections you feel you need more time with and the complete the questions you didn't yet complete in the PhysBuddy and then tackle full past papers. Also practice the multiple choice from your PhysBuddy** MAKE SURE TO LEARN DEFINITIONS AS YOU GO ALONG!!						

DAY	TOPIC	VIDEOS	PRACTICE
	Chemical Equilibrium KC	Video 1-9	PRACTICE AT **LEAST 2 OF EACH QUESTION TYPE** FROMT HE PHYSBUDDY CHECKLIST PAGE 2
	Chemical Equilibrium LCP /graphs	Video 10-11	
	Photoelectric Effect	Video 1-3	
	Rates Of Reaction	Video 1-9	
	Electric Circuits	Video 1-10	
	Newtons Laws	Video 1-13	
	Organic Chem	Video 1-9	
	Organic Chem	Video 10-11	
	Review Day		
	Electrostatics	Video 1-6	
	Acids /bases	Video 1-10	
	Acids/bases	Video 11-13	
	Work Energy Power	Video 1-5	
		Video 6-9	

DAY	TOPIC	VIDEOS	PRACTICE
	Doppler effect	Video 1-5	PRACTICE AT **LEAST 2 OF EACH QUESTION TYPE** FROMT HE PHYSBUDDY CHECKLIST PAGE 2
	Momentum	Video 1-4	
	Review Day		
	Electrochem Galvanic Cell	Video 1-5	
	Electrochem Electrolytic Cell	Video 6-11	
	Electrodynamics	Video 1-7	
	Vertical Projectile	Video 1-6	
	Vertical Projectile	Video 7-9	
	Review day		
	Past papers/MCQ P1		
	Past papers/MCQ P2		

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WATCH A VIDEO
THEN PRACTICE A QUESTION
WATCH ANOTHER VIDEO
PRACTICE A QUESTION
SO CONVENIENT! TUTOR IN YOUR POCKET

- **Use the <u>CHECKLIST</u> in the PhysBuddy and make sure you do <u>AT LEAST TWO OF EACH QUESTION TYPE</u>**
- **<u>Do as MANY OF THE QUESTIONS AS YOU CAN</u> and tick as you go along**
- **Ensure that at the end of each day you are confident in that section**

PHYSBUDDY GR12 PAPER 1 - CHECKLIST

NEWTONS LAWS	
1. Calculations Fnet=ma (ONE BODY SYSTEM)	
Force at an angle/ resolve components	25
Inclined plane	22,24
Vertical forces/object lifted vertically	23
Elevator question	44,45
2. Calculations Fnet = ma TWO BODY SYSTEMS/ PULLEYS	
1. Object hanging vertically and the other object on horizontal surface	28,35,36,37,38
2. One object on inclined plane and another object on horizontal surface/hanging vertically	38
3. Both objects on inclined plane	29
4. Two objects hanging	30,31
5. Force at an angle	26,27,30,31,3233,34,36,39
6. Pulleys in equilibrium	32
7. With equations of motion	40
8. More challenging	41,42
3. Newtons Gravitational Law	
Basic calculation	24,25,32,34
More Challenging	41,42,43

MOMENTUM	
1. Law of conservation of momentum	
Objects separate before and after	53,55
Objects stick together after	62
Objects separate after	55,63
Block/bullet with equations of motion	56,60,61
Release of spring	59
2. Impulse and net force	53,54,56
3. Elastic and inelastic collision	55,62
4. Graphs	57,58,60,61
5. Experiment type questions	59,64
6. More challenging	64,65

<u>TICK OFF AS YOU COMPLETE EACH QUESTION TYPE</u>

THE COMPLETE CHECKLIST IS IN YOUR PHYSBUDDY

At this stage you should be practicing past paper questions

(Use our selection in *PhysBuddy*)

If you are having trouble understanding the basic concepts and can't do past paper questions

Take advantage of

<u>PHYSBUDDY VIDEO LESSONS</u>

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OCT/NOV 2025

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RECOMMENDED QUESTIONS FOR TRIAL PREP 2025

1	**Newtons Laws & Newtons Gravitational Law**	45,48,50,52 ,54,56,57,58,59,60,61,62,63,64 53 ,55
2	**Vertical Projectile Motion**	113,114,116 ,118,119,122,123,124,125,126 129,130,131,133,134,135,136
3	**Momentum**	77,78,80,81,82,83,85,86,87,88,89
4	**Work energy Power** **Energy with momentum**	148,149,150,152,154,156,157,158,159,160,161, 162 ,163 164,165,166,167,168,169,170,171,172,173,174, 175,177, 178,179,180
5	**Doppler Effect**	187,188,189,190,191,192,193,194,196, 197,198,199,200
6	**Electrostatics**	215,216,217,218,219,220,221,222,223,224 225,226,227,228,229,230,232,233,234,235, 236,239
7	**Electric circuits**	290,291,292,294,295,298, 299,300,301,302,303,304,305,306,307, 308,309,311,312
8	**Motors/Generators**	255,257,259,260,261,262,264,265,266 268,269
9	**Photoelectric Effect And Emission/Absorption**	324,327,328,329,330,333,334,335,336 337,338,339,340,341

Do ONE SECTION at a time

- ✓ Read the *PhysBuddy* summary (short and to the point!)
- ✓ Work through the examples
- ✓ Read summaries & learn definitions
- ✓ **Practice recommended questions – as many different types as possible**
- ✓ Do one question at a time and make sure you understand how to answer.

This list of recommended questions will expose you to a wide variety of questions types that can be tested in the exam. You do not have to do all.

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RECOMMENDED QUESTIONS FOR TRIAL PREP 2025

PAPER 2 -CHEMISTRY		PhysBuddy **Page numbers**
1	**Organic chem** **Naming/drawing/identify** **Intermolecular forces** **Reaction types**	37,41,44,45 46,48 50,51,,52,53,54,57,58,59,60 62,63,64,65,61,68,75,76,78,79,80
2	**Rates of Reaction**	100,102,103,105,106,108,109,111,113 115,116,118,120,121,123,125,128,130,133,134 136.138,139,140
3	**Chemical Equilibrium** **Equilibrium Graphs**	170,171,174,175,177,178,180,182,183,185, 186,187.188 189, 191,192,193,197, 168,169,173,176,190,191,194195,199, 200,201,202
4	**Acids and Bases** **Simpler** **More complex**	225,226,230, 228Q8,231,232,234,25,236, 238,246,253,254 233,237,241,242,244,247,249,251,252,255,256
5	**Galvanic Cell**	289,298,288,290,292,295,296,297.300,302,303, 304,305, 307,308,310,311,312
6	**Electrolytic Cell**	283,284,285,286,287,291,293,294,299,301 306,309.313,314

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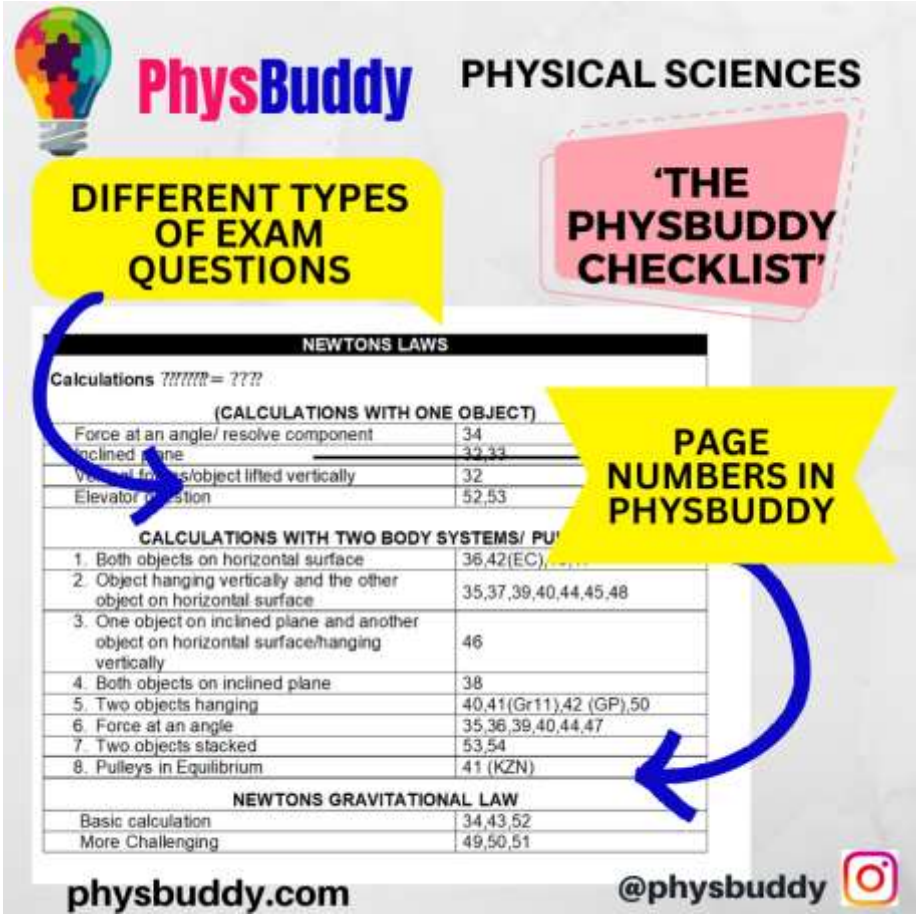
- ✓ Read the *PhysBuddy* summary (short and to the point!)
- ✓ Work through the examples
- ✓ Read summaries & learn definitions
- ✓ **Practice recommended questions – as many different types as possible**
- ✓ Do one question at a time and make sure you understand how to answer.

BELIEVE IN YOURSELF

DO YOUR BEST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PHYSICAL SCIENCES
DIFFERENT TYPES OF EXAM QUESTIONS
'THE PHYSBUDDY CHECKLIST'
PAGE NUMBERS IN PHYSBUDDY
NEWTONS LAWS
Calculations ??????= ????
(CALCULATIONS WITH ONE OBJECT)
Force at an angle/ resolve component 34
Inclined plane 32,33
Vertical forces/object lifted vertically 32
Elevator question 52,53
CALCULATIONS WITH TWO BODY SYSTEMS/ PU
1. Both objects on horizontal surface 36,42(EC)
2. Object hanging vertically and the other object on horizontal surface 35,37,39,40,44,45,48
3. One object on inclined plane and another object on horizontal surface/hanging vertically 46
4. Both objects on inclined plane 38
5. Two objects hanging 40,41(Gr11),42 (GP),50
6. Force at an angle 35,36,39,40,44,47
7. Two objects stacked 53,54
8. Pulleys in Equilibrium 41 (KZN)
NEWTONS GRAVITATIONAL LAW
Basic calculation 34,43,52
More Challenging 49,50,51
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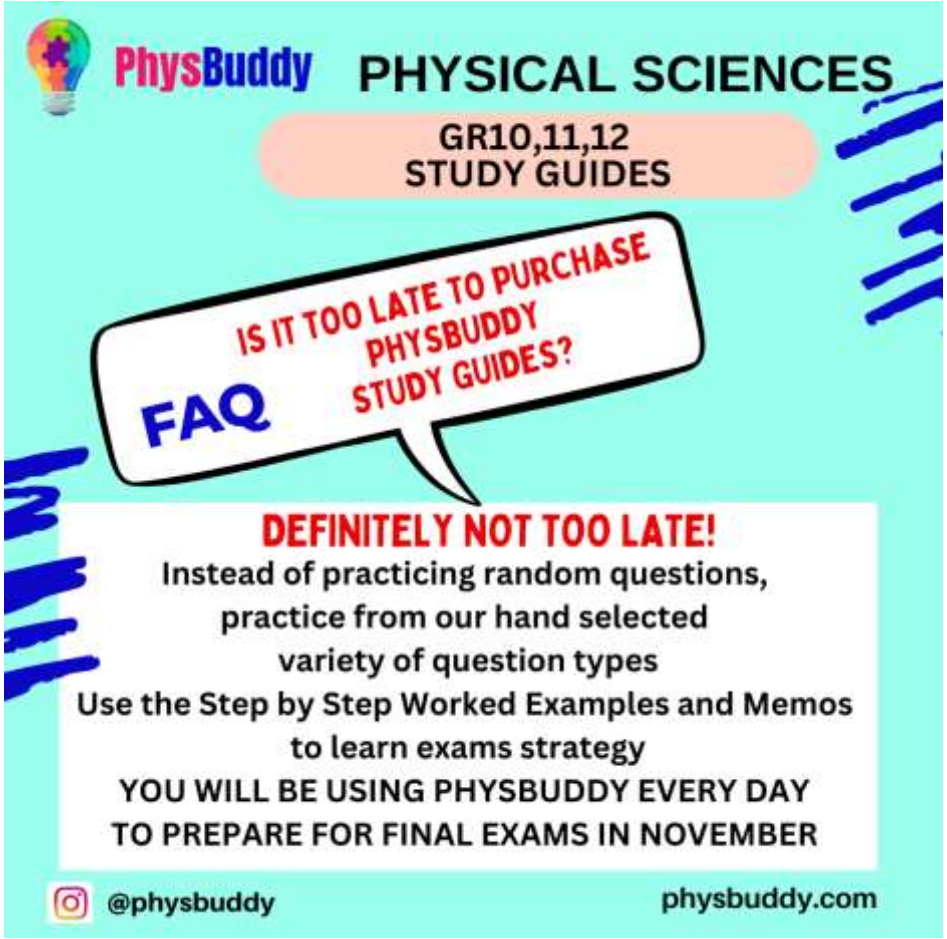
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PHYSICAL SCIENCES
GR10,11,12
STUDY GUIDES
FAQ
IS IT TOO LATE TO PURCHASE PHYSBUDDY STUDY GUIDES?
DEFINITELY NOT TOO LATE!
Instead of practicing random questions,
practice from our hand selected
variety of question types
Use the Step by Step Worked Examples and Memos
to learn exams strategy
YOU WILL BE USING PHYSBUDDY EVERY DAY
TO PREPARE FOR FINAL EXAMS IN NOVEMBER
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MATRIC VIDEOS

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PHYSICAL SCIENCES

- EXAM STRATEGY
- PAST PAPER QUESTIONS
- STEP BY STEP

PHYSICS P1

1. NEWTONS LAWS
2. VERTICAL PROJECTILE MOTION
3. MOMENTUM
4. WORK ENERGY POWER
5. DOPPLER EFFECT
6. ELECTROSTATICS
7. ELECTRIC CIRCUITS
8. ELECTRODYNAMICS
9. PHOTOELECTRIC EFFECT

CHEMISTRY P2

1. ORGANIC CHEMISTRY
2. RATES OF REACTION
3. CHEMICAL EQUILIBRIUM
4. ACIDS AND BASES
5. ELECTROCHEMISTRY

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MATRIC FINALS STUDY TIPS

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PHYSICAL SCIENCES

TIME

Set aside 2-3 hours DAILY for Physical Sciences
Best time for high concentration is early mornings

WHAT TO DO

Do ONE SECTION at a time

- Read summaries from Physbuddy & learn definitions
- Use the PhysBuddy checklist and make sure to practice EACH TYPE OF QUESTION

MAKE SURE TO

- Use a book and not loose paper
- Write in pen
- Check your layout ,units and conversions
- Use the memo to mark each question and to see where you went wrong
- RE-DO the same question if necessary

Understand what you are doing- instead of racing through questions

IMPORTANT!!

When practicing questions take time to think and work through the question without referring to the memo
The memo should only be used to mark and correct your work.

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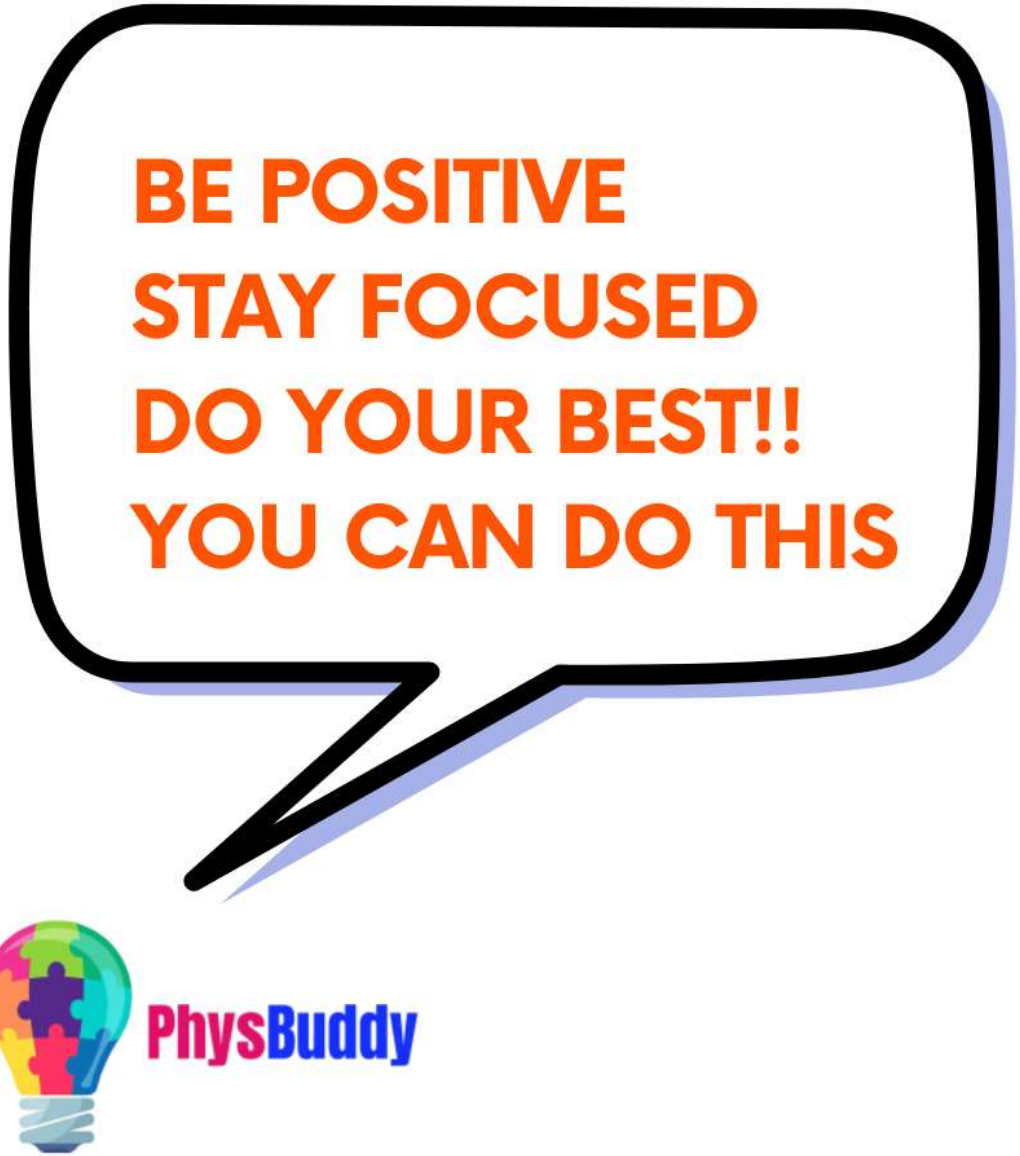
MON	TUES	WED	THURS	FRI	SAT	SUN


BE POSITIVE
STAY FOCUSED
DO YOUR BEST!!
YOU CAN DO THIS
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