



**PhysBuddy**

**PHYSICAL SCIENCES**

**MATRIC**

**25 DAY PLAN  
TO ACE FINALS**



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**ACE PHYSICS WITH PHYSBUDDY**

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# PHYSICAL SCIENCES STUDY GUIDES TO ACE THAT EXAM!

## MATRIC 2024 19 DAY STUDY PLAN TO ACE THE FINALS

<b>GOAL/AIM</b>	<p><b><u>TO IMPROVE YOUR SYMBOL</u></b></p> <p>We at <i>PhysBuddy</i> believe that there is a <u>10-20% window of mark increase possibility between the trials and the finals</u></p> <p>Use your time wisely and give it your best shot!!!</p> <p><b>For learners 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!</b></p>
<b>STRATEGY</b>	<p><b><u>PRACTICE AS MANY PAST PAPER QUESTIONS AS YOU CAN FOR EACH SECTION</u></b></p> <p><i>PhysBuddy</i> contains</p> <p><b>A VARIETY of DIFFERENT TYPES of questions FOR EACH SECTION</b> <u>specifically selected</u> by us from past papers (National and Provincial) including step by step solutions.</p> <p><u>Complete both books and you are sure to ace it!!</u></p>
<b><u>TIME</u></b>	<p><b><u>Set aside 2 -4 hours a day for Physical Sciences.</u></b></p> <p>IN OCOTBER STUDY LEAVE</p> <ul style="list-style-type: none"> <li>• If you are already achieving a B symbol, then 2 hrs daily is sufficient</li> <li>• Achieving less than 60% - work for 3-4 hours daily</li> </ul>
<b><u>DON'T HAVE Physbuddy?</u></b>	<p>Purchase from us (<a href="mailto:physbuddy@gmail.com">physbuddy@gmail.com</a>) only while stocks last</p>

### 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 25- 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

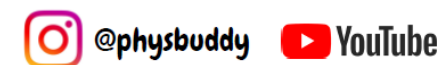
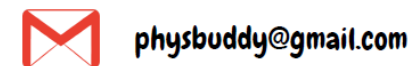
- If possible complete all the questions.
- If not, do as many as possible from each question type
- Make sure you understand what you are doing
- Those who have a copy of *PhysBuddy* from early in the year and have already completed most of the questions in *PhysBuddy* ... you should have achieved your 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.

Follow us on instagram  
for tips and free online  
support



**PHYSICAL SCIENCES  
STUDY GUIDES**

SUMMARIES  
PAST PAPER QUESTIONS  
WORKED SOLUTIONS



**VIDEO LESSONS**

[Physbuddy.teachable.com](https://www.physbuddy.teachable.com)


OCT/NOV 2024

R300 FOR 30 DAYS

ACCESS

**over 100 videos**

**OR EXAM CRAM  
VIDEO COURSE**

MON	TUES	WED	THURS	FRI	SAT	SUN
AFTER TRIALS – REST COMPLETELY A FEW DAYS 5-6 DAYS CATCH UP ON SLEEP AND GET YOUR STUDY MATERIAL PAST PAPERS - PHYSBUDDY ETC						
						 @physbuddy
	1 OCT <b>DAY 1</b> P2 <b>EQUILIBRIUM</b> <b>KC QUESTIONS</b> <b>ONLY</b>	2 <b>DAY 2</b> P2 <b>EQUILIBRIUM</b> <b>LCP and graphs</b>	3 <b>DAY 3</b> P1 <b>PHOTO</b> <b>ELECTRIC</b> <b>EFFECT</b>	4 <b>DAY 4</b> P2 <b>RATES OF</b> <b>REACTION</b> <b>PG 69-95</b>	5 <b>DAY 5</b> P1 <b>CIRCUITS</b>	6 <b>DAY 6</b> P1 <b>NEWTONS</b> <b>LAWS</b>
7	8	9	1	11	1	13
<b>DAY 7</b> P2 <b>ORGANIC CHEM</b> <b>PART 1 AND</b> <b>PART 2</b>	<b>DAY 8</b> P2 <b>ORGANIC CHEM</b> <b>PART 2 AND</b> <b>PART 3</b>	<b>DAY 9</b> P1 <b>ELECTRO</b> <b>STATICS</b>	<b>DAY 10</b> P2 <b>ACIDS AND</b> <b>BASES</b>	<b>DAY 11</b> P2 <b>ACIDS AND</b> <b>BASES</b>	<b>DAY 12</b> P1 <b>WORK ENERGY</b> <b>POWER</b>	<b>DAY 13</b> P1 <b>ELECTRO</b> <b>DYNAMICS</b>
14	15	16	17	18	19	20
<b>DAY 14</b> P1 <b>DOPPLER</b> <b>EFFECT</b>	<b>DAY 15</b> P1 <b>MOMENTUM</b> <b>And Mechanical</b> <b>energy and</b> <b>momentum</b>	<b>DAY 16</b> P2 <u>Electrochem</u> <u>Galvanic cell</u>	<b>DAY 17</b> P2 <u>Electrochem</u> <u>Electrolytic cell</u>	<b>DAY 18</b> P1 <b>VERTICAL</b> <b>PROJECTILE</b> <b>MOTION</b>	<b>DAY 19</b> P1 <b>VERTICAL</b> <b>PROJECTILE</b> <b>MOTION</b>	
21	<b>CONGRATULATIONS!! YOU HAVE REACHED THE END OF THE PHYSBUDDY 19 DAY PLAN</b> <b>YOU SHOULD NOW BE CONFIDANT IN ANSWERING QUESTIONS IN ALL SECTIONS</b>					
MATRIC FINALS	<b>Continue daily with at least 1-2 hours of Physical Sciences EVERY DAY right until your Physical Sciences Paper</b> <b>Practice the sections you feel you need more time with and the complete the questions you didn't yet complete in</b> <b>the PhysBuddy and then tackle more past papers. Also practice the multiple choice from your PhysBuddy</b> <b>MAKE SURE TO LEARN DEFINITIONS!!</b>					

DAY	TOPIC	VIDEOS	PRACTICE
1	Chemical Equilibrium KC	Video 1-9	<b>PRACTICE AT LEAST 2 OF EACH QUESTION TYPE FROM THE PHYSBUDDY CHECKLIST PAGE 2</b>
2	Chemical Equilibrium LCP /graphs	Video 10-11	
3	Photoelectric Effect	Video 1-3	
4	Rates Of Reaction	Video 1-9	
5	Electric Circuits	Video 1-10	
6	Newtons Laws	Video 1-13	
7	Organic Chem	Video 1-9	
8	Organic Chem	Video 10-11	
9	Review Day		
10	Electrostatics	Video 1-6	
11	Acids /bases	Video 1-10	
12	Acids/bases	Video 11-13	
13	Work Energy	Video 1-5	
14	Power	Video 6-9	

DAY	TOPIC	VIDEOS	PRACTICE
15	Doppler effect	Video 1-5	<b>PRACTICE AT LEAST 2 OF EACH QUESTION TYPE FROM THE PHYSBUDDY CHECKLIST PAGE 2</b>
16	Momentum	Video 1-4	
17	Review Day		
18	Electrochem Galvanic Cell	Video 1-5	
19	Electrochem Electrolytic Cell	Video 6-11	
20	Electrodynamics	Video 1-7	
21	Vertical Projectile	Video 1-6	
22	Vertical Projectile	Video 7-9	
23	Review day		
24	Past papers/MCQ P1		
25	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 CHECKLIST in the PhysBuddy and make sure you do AT LEAST TWO OF EACH QUESTION TYPE
- Do as MANY OF THE QUESTIONS AS YOU CAN and tick as you go along

## MATRIC 19 DAY PLAN TO ACE PHYSICAL SCIENCES

- Ensure that at the end of each day you are confident in that section

**TICK OFF AS YOU COMPLETE  
EACH QUESTION TYPE**

**THE COMPLETE CHECKLIST IS  
IN YOUR PHYSBUDDY**

### PHYSBUDDY GR12 PAPER 1 - CHECKLIST

NEWTONS LAWS	
<b>1. Calculations <math>F_{net}=ma</math> (ONE BODY SYSTEM)</b>	
Force at an angle/ resolve components	25
Inclined plane	22,24
Vertical forces/object lifted vertically	23
Elevator question	44,45
<b>2. Calculations <math>F_{net} = ma</math> TWO BODY SYSTEMS/ PULLEYS</b>	
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	26,27,30,31,32,33,34,36,39
6. Pulleys in equilibrium	32
7. With equations of motion	40
8. More challenging	41,42
<b>3. Newtons Gravitational Law</b>	
Basic calculation	24,25,32,34
More Challenging	41,42,43

MOMENTUM	
<b>1. Law of conservation of momentum</b>	
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

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

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**PhysBuddy**

**PHYSICAL SCIENCES**

**DIFFERENT TYPES OF EXAM QUESTIONS**

**'THE PHYSBUDDY CHECKLIST'**

**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/ PULLEYS**

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

**PAGE NUMBERS IN PHYSBUDDY**

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**PhysBuddy**

**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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**PHYSICAL SCIENCES**

# **'THE PHYSBUDDY CHECKLIST'**



**Hand selected past exam questions  
from different years and provinces  
to expose you to a variety of  
question types that can be tested  
in the exam**

**Practice at least 2 of each type of  
question and you will be well  
prepared for the exam!**

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# MATRIC FINALS STUDY TIPS



## PHYSICAL SCIENCES

### TIME

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

### 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

### 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

### 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.



MON	TUES	WED	THURS	FRI	SAT	SUN

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



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