

# 2020 REVISED CURRICULUM AND ASSESSMENT PLANS

## PHYSICAL SCIENCES GRADE 11

**Implementation: June 2020**



# Presentation Outline

1. Purpose

2. Amendments to the Content Overview for the Phase;

3. Amendments to the Annual Teaching Plan;

4. Amendments School Based Assessment (SBA)

5. Conclusion



# 1. Purpose

- To mediate the amendments of the trimmed and re-organised 2020 Annual Teaching Plan including School Based Assessment for **Physical Sciences Grade 11** for implementation in June 2020 as stipulated in **Circular S2 of 2020**.
- To ensure that **meaningful teaching proceeds** during the remaining teaching time as per the revised school calendar.
- To assist teachers with **guided pacing and sequencing** of curriculum content and assessment.



# 1. Purpose (continued)

- To enable teachers to **cover the essential core content /skills** in each grade within the available time.
- To assist teachers with **planning** for the different forms of **assessment**.
- To ensure learners are **adequately prepared** for the **subsequent year/s** in terms of content, skills, knowledge, attitudes and values



## **2.**

# **Amendments to the Content Overview for the Phase**

# Summary: Amendments to the Content Overview for the Phase

Knowledge Area	Grade 10	Grade 11	Grade 12
<b>MECHANICS</b>	No amendments	No amendments	No amendments
<b>WAVES, SOUND AND LIGHT</b>	No amendments	<b>Removed:</b> <b>Geometrical Optics:</b> Refraction, Snell's law, critical angles & total internal reflection <b>2D &amp; 3D Wave fronts</b> Diffraction	No amendments
<b>ELECTRICITY AND MAGNETISM</b>	Removed: <b>Magnetism</b>	<b>Electromagnetism:</b> Removed all calculations	No amendments

# Summary: Amendments to the Content Overview for the Phase

Knowledge Area	Grade 10	Grade 11	Grade 12
<b>MATTER AND MATERIALS</b>	Removed: <b>Particles</b> <b>substances are made of</b>	<b>Ideal gases and thermal properties:</b> Retained: Kinetic molecular theory & Boyle's law	No amendments
<b>CHEMICAL CHANGE</b>	Removed: <b>Reactions in aqueous solution</b>	No amendments	No amendments
<b>CHEMICAL SYSTEMS</b>	Removed: <b>Hydrosphere</b>	Removed: <b>Exploiting the lithosphere</b>	No amendments

# **3. Amendments to the Annual Teaching Plan**



## Summary.

# Reorganisation of content topics

- Term 2: 'Geometrical optics' and '2D & 3D Wave fronts' were removed.
- Term 2: 'Ideal gases and thermal properties' was amended:
  - Retained: Kinetic molecular theory & Boyle's law  
CAPS p79 bullets 1 to 5; p80 bullets 1 & sub-bullets 1,2  
4, 5; p81 bullets 2, 3 ,4
  - Removed other gas laws.
- Term 3: Electromagnetism was amended
  - Retained CAPS p 86 bullets 1, 2, 3, 4; p87 bullets 1, 2, 3
  - Removed CAPS p87 bullet 4, 5; p88 bullet 1

# Summary:

## Reorganisation of content topics

- Term 3: 'Energy in chemical change' and 'Types of reaction' were moved to Term 4.
- 'Types of reaction' was amended:  
CAPS: p93 Bullet 5  
Change to: Balance redox reaction equations by using ~~oxidation numbers via the ion-electron method~~ half-reactions from the Table of Standard Reduction Potentials.
- Term 4: 'Exploiting the lithosphere' was removed.



# weighting of content topics

## Final Examination

Knowledge Area	CAPS weighting	Revised weighting	Marks in final Paper
Mechanics	22,7%	26,7%	40
Wave, Sound & Light	10,7%	0	0
Electricity & Magnetism	16,7%	26,7	35
Matter & Material	23,3%	16,7%	25
Chemical Change	20%	33,3%	50
Chemical Systems	6,7%	0	0
<b>TOTAL</b>			<b>150</b>

# Summary: Content/Topics Amended

Content	Term	Amendment
Geometrical optics	2	Removed whole topic CAPS: p 32, 33, 34
2D & 3D wavefronts	2	Removed whole topic CAPS: p 35, 36, 37
Ideal gases and thermal properties'	2	Trimmed Retained CAPS p79 bullets 1 to 5; p80 bullets 1 & sub-bullets 1, 2, 4, 5; p81 bullets 2, 3 ,4



# Content/Topics Amended

Content	Term	Amendment
Electromagnetism	3	Trimmed Removed CAPS p87 bullet 4, 5; p88 bullet 1
Energy in chemical change	3	Moved to Term 4 CAPS p 90-91
Types of reaction	3	Moved to Term 4 CAPS: p 91-94
Exploiting the lithosphere	4	Removed whole topic CAPS: p 95-98

# **4. Amendments School Based Assessment (SBA)**

# Summary: Revised Programme of Assessment

Term	Task	SBA Weighting
1	Experiment	10%
	Control Test	40%
3	Control Test	40%
3	Experiment	10%



# Summary: Revision Final Examination Structure

- The final exam paper will be ONE paper only.
- The total will be 150 marks and the duration will be 3 hours.
- Physics: 80 marks; Chemistry: 70 marks
- Question 1 will be 10 multiple choice questions
  - Q1.1 to Q1.5: Physics
  - Q1.6 to Q1.10: Chemistry
- Questions Q2 to Q5: Physics
- Questions Q6 to Q10: Chemistry





# Summary: Revision Final Examination Structure

Knowledge Area	Weighting	Marks
Mechanics	26,7%	40
Wave, Sound & Light	0	0
Electricity & Magnetism	26,7	35
Matter & Material	16,7%	25
Chemical Change	33,3%	50
Chemical Systems	0	0
<b>TOTAL</b>		<b>150</b>



# 4. Conclusion

# Conclusion

- The ATP was designed to cater for the discussion and corrections of the March and September control tests.
- 2 hours were allocated for the feedback on each test.
- Time allocated per topic is a guideline – teaching might be shorter/longer depending on the situation in each school.
- Time allocated should be enough to complete the revised ATP.

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