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**OFFICE OF THE DIRECTOR: E-TEACHING AND LEARNING**

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**E-TEACHING AND LEARNING INSTRUCTION – ETL 08/2021**

**TO:** DEPUTY DIRECTORS-GENERAL  
CHIEF FINANCIAL OFFICER  
CHIEF DIRECTORS  
DIRECTORS AND DISTRICT DIRECTORS  
CHIEF EDUCATION SPECIALISTS  
EDUCATION DEVELOPMENT OFFICERS  
DEPUTY CHIEF / SENIOR EDUCATION SPECIALISTS  
E-TEACHING AND LEARNING COORDINATORS  
SUBJECT ADVISORS  
SCHOOL PRINCIPALS  
GRADE 12 TEACHERS

**FROM:** MR. M.R. TYWAKADI  
DDG: CURRICULUM MANAGEMENT AND SUPPORT

**DATE:** 01 OCTOBER 2021

<p><b>MATHEMATICS AND PHYSICAL SCIENCES MSI LAST PUSH WEBINARS</b></p>
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**PURPOSE**

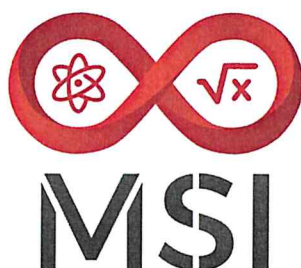
The purpose of this E-Teaching and Learning Instruction (ETL 08/2021) is to share the schedule for Mathematics and Physical Sciences Webinars to commence as from **11-17 October 2021**.

1. As part of the last push for Grade 12 support, ECDoE in collaboration with Maths and Science Infinity (MSI) will be hosting Mathematics and Physical Sciences Webinars.
2. The webinars are open to all Grade 12 Mathematics and Physical Sciences learners.
3. The learners will be given worksheets before the broadcast day, these will be emailed to all schools.
4. The day of broadcast will be utilized to discuss basic concepts and problem-solving techniques.

5. The broadcast sessions will be interactive via Teams Live Chats to allow learners to ask questions  
where they didn't understand something, the link will be shared through ECDoE platforms and emailed to all the schools.
6. No voice interaction will be allowed to minimize disturbances.
7. The schools are urged to prepare for these broadcasts- prepare a classroom with a laptop, data projector, speakers and a screen so as to broadcast; learners having access to own devices can log on using those.
8. Learners can ask questions through the teacher via the Teams Live Chat and learners with own devices can ask directly.
9. The schedule and link can also be accessed from [www.eccurriculum.co.za](http://www.eccurriculum.co.za); all Grade 12 Mathematics and Physical Science teachers and learners are encouraged to visit the website.
10. See below schedule for topics to be broadcasted.
11. Subject Planners, Advisors and E-Learning coordinators will also mediate the contents of this instruction to all relevant teachers and their principals.

  
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**MR. M.R. TYWAKADI**  
**DDG: CURRICULUM MANAGEMENT AND SUPPORT**

01/10/2021  
.....  
**DATE**



## Mathematics and Physical Sciences Webinar

Dates: 11 – 17 October 2021

### Grade 12 Broadcast Schedule

DATE	TIME	SUBJECT	TOPICS AND CONTENT	FACILITATORS
<b>Monday</b> <b>11 October</b>	10:00-12:00	Mathematics	Probability (Counting principles)	Mr. Thulani Mjikwa
	13:00-15:00	Physical Sciences	Momentum and Impulse	Mr. Felix Pagona
<b>Tuesday</b> <b>12 October</b>	10:00-12:00	Mathematics	Financial Mathematics (Future-value annuity)	Mr. Thulani Mjikwa
	13:00-15:00	Physical Sciences	Vertical Projectile Motion (Graphs & equations of motion)	Mr. Felix Pagona
<b>Wednesday</b> <b>13 October</b>	10:00-12:00	Mathematics	Financial Mathematics (Present-value annuity)	Mr. Thulani Mjikwa
	13:00-15:00	Physical Sciences	Rates of reaction (Factors affecting rates)	Mr. Felix Pagona
<b>Thursday</b> <b>14 October</b>	10:00-12:00	Mathematics	Differential Calculus (1 <sup>st</sup> principles & rules of differentiation)	Mr. Thulani Mjikwa
	13:00-15:00	Physical Sciences	Chemical equilibrium (Kc value and the RICE table)	Mr. Felix Pagona
<b>Friday</b> <b>15 October</b>	10:00-12:00	Mathematics	Trigonometry (Reduction formulae)	Mr. Thulani Mjikwa
	13:00-15:00	Physical Sciences	Electrochemistry (Galvanic cell and Electrolytic cell)	Mr. Felix Pagona



<b>Saturday</b> <b>16 October</b>	10:00-12:00	Mathematics	Trigonometry (2D & 3D shapes)	Mr. Thulani Mjikwa
	13:00-15:00	Physical Sciences	Organic molecules	Mr. Felix Pagona
<b>Sunday</b> <b>17 October</b>	10:00-12:00	Mathematics	Euclidean geometry (Circle theorems)	Mr. Thulani Mjikwa
	13:00-15:00	Physical Sciences	Electricity (Electrostatics and Electric circuits)	Mr. Felix Pagona

**NB. The webinar will be broadcasted through Teams Live event – link will be shared with every school through email**