

FORM 4

TERM 1

SUBJECT: PHYSICS.

TOPIC 4: ELECTROMAGNETIC SPECTRUM.

TEACHER'S NAME:

TSC NO:

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SCHOOL/ INSTITUTION :

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FORM: 4

TERM: 1

YEAR.....

NUMBER OF STUDENTS.....

SUBJECT: PHYSICS

TOPIC: ELECTROMAGNETIC SPECTRUM.

SUB-TOPIC: THE ELECTROMAGNETIC SPECTRUM

WEEK:

LESSON NUMBER:

DATE:

TIME:

OBJECTIVES: By the end of the lesson the learner should be able to;

-Describe a complete electromagnetic spectrum.

LESSON PRESENTATION

TIME	CONTENT	LEARNING ACTIVITIES	RESOURCES	REFERENC E
5 MINUTES	INTRODUCTION Define electromagnetic spectrum.	Discussion. Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Golden tips Physics pages 174
30 MINUTES	BODY DEVELOPMENT -Discussions on the charge in wave length of electromagnetic radiations explanations	-Discussions on the charge in wave length of electromagnetic radiations explanations	charts showing the components of the electromagnetic spectrum	-Secondary physics KLB students book 4 page 79 -Principles of physics (M.Nelkon)

				pages 345 -Golden tips Physics pages 174
5 MINUTES	CONCLUSION Giving assignment on the sub-topic.	Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Golden tips Physics pages 174

SELF-EVALUATION:-

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YEAR.....

NUMBER OF STUDENTS.....

SUBJECT: PHYSICS

TOPIC: ELECTROMAGNETIC SPECTRUM.

SUB-TOPIC: PROPERTIES OF ELECTROMAGNETIC WAVES.

WEEK:

LESSON NUMBER:

DATE:

TIME:

OBJECTIVES: By the end of the lesson the learner should be able to;

-State the properties of electromagnetic waves

LESSON PRESENTATION

TIME	CONTENT	LEARNING ACTIVITIES	RESOURCES	REFERENC E
5 MINUTES	INTRODUCTION Review the previous lesson.	Discussion. Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Principles of physics (M.Nelkon) pages 345
30 MINUTES	BODY DEVELOPMENT Explaining the properties of each component of the electromagnetic	Explaining the properties of each component of the electromagnetic spectrum	Charts showing the properties of electromagnetic waves	-Secondary physics KLB students book 4 page 80-81 -Principles of

	spectrum			physics (M.Nelkon) pages 345 -Golden tips Physics pages 175
5 MINUTES	CONCLUSION Giving assignment on the sub-topic.	Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Principles of physics (M.Nelkon) pages 345

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NUMBER OF STUDENTS.....

SUBJECT: PHYSICS

TOPIC: ELECTROMAGNETIC SPECTRUM.

SUB-TOPIC: DETECTION OF ELECTROMAGNETIC SPECTRUM.

WEEK:

LESSON NUMBER:

DATE:

TIME:

OBJECTIVES: By the end of the lesson the learner should be able to;

-Describe the methods of detecting electromagnetic radiations

LESSON PRESENTATION

TIME	CONTENT	LEARNING ACTIVITIES	RESOURCES	REFERENC E
5 MINUTES	INTRODUCTION Review the previous lesson.	Discussion. Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Golden tips Physics pages 175-176
30 MINUTES	BODY DEVELOPMENT Demonstrating and explaining how to	Demonstrating and explaining how to detect electromagnetic radiations	Radiation detectors Charts showing detectors of electromagnetic	-Secondary physics KLB students book 4 page

	detect electromagnetic radiations		radiation	81 -Golden tips Physics pages 175-176
5 MINUTES	CONCLUSION Giving assignment on the sub-topic.	Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Golden tips Physics pages 175-176

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FORM: 4 **TERM: 1**
YEAR.....

NUMBER OF STUDENTS..... **SUBJECT: PHYSICS**

TOPIC: ELECTROMAGNETIC SPECTRUM.
SUB-TOPIC: APPLICATIONS OF ELECTROMAGNETIC RADIATION.
WEEK: **LESSON NUMBER:**

DATE: **TIME:**

OBJECTIVES: By the end of the lesson the learner should be able to;

-Describe the applications of electromagnetic radiations including
greenhouse effect

LESSON PRESENTATION

TIME	CONTENT	LEARNING ACTIVITIES	RESOURCES	REFERENC E
5 MINUTES	INTRODUCTION	Discussion.	-Chalk board/white	-Golden tips Physics

	Outline some of the applications of electromagnetic radiations.	Questions and answers.	board. -A piece of chalk/ marker pen.	pages 175-176
30 MINUTES	BODY DEVELOPMENT Discussions of application of electromagnetic radiations	Discussions of application of electromagnetic radiations	Pictures and chart on application of electromagnetic radiations	-Secondary physics KLB students book 4 page 82 -Principles of physics (M.Nelkon) pages 336 -Golden tips Physics pages 175-176
5 MINUTES	CONCLUSION Answering questions from the learners.	Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Golden tips Physics pages 175-176

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NUMBER OF STUDENTS..... **SUBJECT: PHYSICS**

TOPIC: ELECTROMAGNETIC SPECTRUM.

SUB-TOPIC: PROBLEMS ON $C=FX$.

WEEK: **LESSON NUMBER:**

DATE: **TIME:**

OBJECTIVES: By the end of the lesson the learner should be able to;

-Solve numerical problems involving $C=fx$

LESSON PRESENTATION

TIME	CONTENT	LEARNING	RESOURCES	REFERENC
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		ACTIVITIES		E
5 MINUTES	INTRODUCTION Ask probing questions.	Discussion. Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Secondary physics KLB students book 4 page 80
30 MINUTES	BODY DEVELOPMENT -Problem solving -Discussions -Explanations -Questions and answers	-Problem solving -Discussions -Explanations -Questions and answers	-Questions and answers exercises	- Comprehensive secondary physics students book 4 pages 45 teachers book 34pages 20-21 -Secondary physics KLB students book 4 page 80
5 MINUTES	CONCLUSION Giving assignment on the whole topic.	Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Secondary physics KLB students book 4 page 80

SELF-EVALUATION:-

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