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FORM 4
TERM 1
SUBJECT: PHYSICS.
TOPIC 4: ELECTROMAGNETIC SPECTRUM.
TEACHER'S NAME: …… TSC NO: …….

SCHOOL/ INSTITUTION : …….

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	REFERENCE
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

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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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TEACHER'S NAME: …… TSC NO: …….

SCHOOL/ INSTITUTION : …….

FORM: 4 TERM: 1 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	REFERENCE
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 spectrum	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 physics (M.Nelkon) pages 345 -Golden tips Physics pages 175

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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

SELF-EVALUATION:-

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SCHOOL/ INSTITUTION : …….

FORM: 4 TERM: 1 YEAR……..

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**	**REFERENCE**
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 detect electromagnetic radiations	Demonstrating and explaining how to detect electromagnetic radiations	Radiation detectors Charts showing detectors of electromagnetic radiation	-Secondary physics KLB students book 4 page 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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SELF-EVALUATION:-

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SCHOOL/ INSTITUTION : …….

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**	**REFERENCE**
5 MINUTES	**INTRODUCTION** Outline some of the applications of electromagnetic radiations.	Discussion. Questions and answers.	-Chalk board/white board. -A piece of chalk/ marker pen.	-Golden tips Physics 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

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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

SELF-EVALUATION:-

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SCHOOL/ INSTITUTION : …….

FORM: 4 TERM: 1 YEAR……..

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 ACTIVITIES**	**RESOURCES**	**REFERENCE**
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

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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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