

EaD Comprehensive Lesson Plans



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BASIC 8

WEEKLY LESSON PLAN – WEEK 8

Strand:	Humans and the Environment		Sub-Strand:	Science and Industry	
Content Standard:	B8.5.3. 1 Demonstrate understanding of connections among science, technology, innovation, society and the environment				
Indicator (s)	B8. 5.3.1.1 Examine the relationship among science, technology, innovation and society		Performance Indicator: Learners can identify scientific processes.		
Week Ending	18-08-2023				
Class	B.S.8	Class Size:		Duration:	
Subject	Science				
Reference	Science Curriculum, Teachers Resource Pack, Learners Resource Pack.				
Teaching / Learning Resources	Power Point Presentation, Word chart, Poster, Pictures, Video		Core Competencies:	<ul style="list-style-type: none">Digital LiteracyCritical Thinking and Problem SolvingCommunication and Collaboration.	
DAY/DATE	PHASE 1 : STARTER	PHASE 2: MAIN			PHASE 3: REFLECTION
MONDAY	Discuss the meaning of keywords and terminologies in the lesson with the Learners. Keywords/Terminologies ; 1. Technology 2. Innovation 3. Scientific 4. Society 5. Information 6. Impact 7. Advancement 8. Environment.	1. Using a Presentation, explain the relationship between Science, technology and Innovation. 2. Learners brainstorm to differentiate between technology and innovation. 3. Assist learners to identify the impact of science, technology and innovation on the Society. 4. Learners in small groups to discuss about the importance of Science to the Society. <ul style="list-style-type: none">Science, technology, and society are closely interrelated and have a significant impact on each other.Science is the systematic study of the natural world through observation and experimentation. It provides the knowledge and understanding of the natural laws and processes that govern the universe. Technology, on the other hand, is the application of scientific knowledge to			Through questions and answers, conclude the lesson. Exercise; 1. Explain the following terms; i. Science ii. Technolog y iii. Innovation 2. State 4 impacts of Science, technology

		<p>create new tools and techniques to solve problems and improve our lives.</p> <ul style="list-style-type: none"> ○ Society, in turn, shapes the development of science and technology. Societal values, beliefs, and needs influence the direction of scientific research and the development of new technologies. For example, a society that values environmental protection may invest more resources in developing renewable energy technologies, while a society that prioritizes economic growth may focus more on developing technologies that increase productivity and efficiency. ○ In addition, science and technology also shape and influence society. The development of new technologies can bring about changes in the way we live, work, and interact with each other. For example, the internet and social media have greatly impacted the way people communicate and access information, while advances in medical technology have led to longer life expectancies. ○ Furthermore, science and technology also have the power to create new ethical and social dilemmas. For example, the development of artificial intelligence raises questions about the implications for privacy and the future of work, and the use of genetic engineering raises ethical concerns about the manipulation of human biology. ○ In conclusion, science, technology, and society are mutually influencing each other. Science and technology are developed within the context of society, and society shapes and is shaped by the development of science and technology. 	<p>and innovation on the Society.</p>
THURSDAY	Review Learners knowledge on the previous lesson.	<ol style="list-style-type: none"> 1. Discuss with Learners on the effects of Science, technology and Innovation on the society. 2. Learners brainstorm to identify the positive and negative effects of science, technology and innovation. 3. Assist Learners to explain Science is studied in schools and its relevance. <p>Effects of Science , technology and Innovation on the Society;</p> <ul style="list-style-type: none"> • science and technology have progressed to satisfy society's needs and wants. These changes in society brought about by advances in medical 	<p>Reflect on the importance of science.</p> <p>Exercise;</p> <ol style="list-style-type: none"> 1. State 3 positive effects of Science and technology. 2. State 2 negative

		<p>care, defense, cybersecurity, entertainment, and communication define our lives today</p> <ul style="list-style-type: none"> • The Development of the country has a long tradition of collaboration in research, education, and non-governmental organizations to meet the needs of the individual, the scientific and technical issues that will have an impact on society. • Issues related to the science and technology are being discussed all over the world to the present day. Progress in this direction has led to the possibility of different types of material to post. The answer to the question of how science and technology affect our society. <p>Benefits of science and technology;</p>  <p>Advantages of Science and Technology</p> <ul style="list-style-type: none"> • Science and Technology help in the Development. • Science and Technology help in Medicinal growth. • Science and Technology help in Understanding World. • Science and Technology have led to the invention of new devices. • Science and Technology help provide Better Education. 	<p>effects of Science and technology.</p>
FRIDAY	Learners brainstorm to explain how science, technology and innovation contribute to nation building.	<ol style="list-style-type: none"> 1. Discuss with Learners on scientific processes applied in solving issues in the society. 2. Learners in small groups to discuss and report to the class on how technology ad advancement has brought improvement in the nation Ghana. 3. Assist Learners to identify science and technology related challenges or problems. <p>The Scientific Process</p>	<p>Discuss the role of education in science, technology and innovation.</p> <p>Exercise;</p> <ol style="list-style-type: none"> 1. State the scientific processes.

		<ul style="list-style-type: none">• Define a Question to Investigate. As scientists conduct their research, they make observations and collect data.• Make Predictions. Based on their research and observations, scientists will often come up with a hypothesis.• Gather Data.• Analyze the Data.• Draw Conclusions. <div data-bbox="586 474 909 772"></div> <p>challenges of science and technology;</p> <ul style="list-style-type: none">• Financial. All research requires funding, and the fight to get and keep funding has traditionally been the stumbling block that most scientists encounter throughout their careers.• Bad incentives.• Studies replication.• Peer review.• Science accessibility.• Poor communication.	<ul style="list-style-type: none">2. Mention 5 technology tools you know and their functions.3. What is the difference between Technology and Innovation.
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