

EaD Comprehensive Lesson Plans



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BASIC 9

WEEKLY LESSON PLAN – WEEK 2

Strand:	Socio-Economics Development		Sub-Strand:		Science and Technology										
Content Standard:	B9.5.4.1.Analyse the contribution of science and technology to national development														
Indicator (s)	B9.5.4.1.1. Examine how science and technology can be used to promote development			Performance Indicator: Learners can apply scientific knowledge in solving problems in the Community.											
Week Ending	19-01-2024														
Class	B.S.9		Class Size:		Duration:										
Subject	Social Studies														
Reference	Social Studies Curriculum, Teachers Resource Pack, Learners Resource Pack, Textbook.														
Teaching / Learning Resources	Poster, Word Chart, Pictures, Video.			Core Competencies:		<ul style="list-style-type: none">Critical Thinking and Problem Solving Communication and Collaboration.									
DAY/DAT E	PHASE 1 : STARTER	PHASE 2: MAIN				PHASE 3: REFLECTION									
MONDAY	<p>Discuss with the learners about the meanings of keywords and terminologies in the lesson.</p> <p>Terminologies;</p> <ul style="list-style-type: none">TechnologyDevelopmentScienceIntegratedAdvancementModernExploitationglobal	<p>1. Assist Learners to differentiate between science and technology.</p> <p>2. Briefly explain how technology is related to science.</p> <p>3. Learners brainstorm to identify examples of technological tools, equipment, devices and machineries found in their community.</p> <p>The words science and technology can and often are used interchangeably. But the goal of science is the pursuit of knowledge for its own sake while the goal of technology is to create products that solve problems and improve human life. Simply put, technology is the practical application of science.</p> <p>Comparison chart</p> <table><thead><tr><th></th><th>Science</th><th>Technology</th></tr></thead><tbody><tr><td>Result</td><td>Making virtually value-free statements</td><td>Activities always value-laden</td></tr><tr><td>Relevance</td><td></td><td></td></tr></tbody></table>					Science	Technology	Result	Making virtually value-free statements	Activities always value-laden	Relevance			<p>Through questions and answers, conclude the lesson.</p> <p>Exercise;</p> <p>Explain the following;</p> <ul style="list-style-type: none">i. Scienceii. Technology
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		<table><tr><td>Evaluation Methods</td><td>Analysis, generalization and creation of theories</td><td>Analysis and synthesis of design</td></tr><tr><td>Goals achieved through</td><td>Corresponding Scientific Processes</td><td>Key Technological Processes</td></tr><tr><td>Focus</td><td>Focuses on understanding natural phenomena</td><td>focuses on understanding the made environment</td></tr><tr><td>Development Methods</td><td>Discovery (controlled by experimentation)</td><td>Design, invention, production</td></tr><tr><td>Most observed quality</td><td>Drawing correct conclusions based on good theories and accurate data</td><td>Taking good decisions based on incomplete data and approximate models</td></tr><tr><td>Skills needed to excel</td><td>Experimental and logical skills</td><td>Design, construction, testing, planning, quality assurance, problem solving, decision making, interpersonal and communication skills</td></tr></table>	Evaluation Methods	Analysis, generalization and creation of theories	Analysis and synthesis of design	Goals achieved through	Corresponding Scientific Processes	Key Technological Processes	Focus	Focuses on understanding natural phenomena	focuses on understanding the made environment	Development Methods	Discovery (controlled by experimentation)	Design, invention, production	Most observed quality	Drawing correct conclusions based on good theories and accurate data	Taking good decisions based on incomplete data and approximate models	Skills needed to excel	Experimental and logical skills	Design, construction, testing, planning, quality assurance, problem solving, decision making, interpersonal and communication skills	
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Definition of science and technology																					
<p>Science from the Latin <i>scientia</i> (knowledge) is a system of acquiring knowledge based on the scientific method, as well as the organized body of knowledge gained through such research. Science as defined here is sometimes termed pure science to differentiate it from applied science, which is the application of scientific research to specific human needs.</p>																					
<p>Technology is a broad concept that deals with a species' usage and knowledge of tools and crafts, and how it affects a species' ability to control and</p>																					

		<p>adapt to its environment. In human society, it is a consequence of science and engineering, although several technological advances predate the two concepts.</p> <p>Science refers to a system of acquiring knowledge. This system uses observation and experimentation to describe and explain natural phenomena. The term science also refers to the organized body of knowledge people have gained using that system.</p> <p>Fields of science are commonly classified along two major lines:</p> <ol style="list-style-type: none"> 1. Natural sciences, which study natural phenomena (including biological life), 2. Social sciences, which study human behavior and societies. <p>These groupings are empirical sciences, which mean the knowledge must be based on observable phenomena and capable of being tested for its validity by other researchers working under the same conditions.</p>	
FRIDAY	Ask Learners to explain how technology has helped them improve on their studies.	<ol style="list-style-type: none"> 1. Learners brainstorm to identify 5 importance of technology 2. Discuss with the Learners about how science and technology can be used for development and production in Ghana. 3. Organize an excursion to a production industry for the Learners to observe how technology is used in production. 	<p>Through questions and answers, conclude the lesson.</p> <p>Exercise;</p> <ol style="list-style-type: none"> 1. Write 5 importance of technology. 2. Explain how science and technology can be used for development.



Importance of Technology in Education

Technology contributes significantly to the access and acquisition of information, and thus the development. This is the reason for the existence of a huge scientific and cognitive revolution, which entails facilitating human life by increasing inventions in various practical fields.

E-learning is one of the most significant contributions of technology to learning; The learner can control his / her education system by managing the learning process, the content of the learning process, and communicating with colleagues during the learning process.

E-learning has provided the learner with many programs that provide immediate reference to what the learner is asking for, by providing discussion forums and libraries that allow questions to be asked and answered very quickly.

Technological advances have also allowed the so-called open education that allows people with health problems or living far away to enroll in online classrooms.

You can transform your learning style with online education resources. PDF is a file format developed by Adobe to present documents. Using online tools, you can edit pdf for free. PDF software makes it possible to

convert existing materials and create new resources in a digital format.

Importance of Technology In Decision-Making and Problem-Solving

Technology has contributed to solving various human problems, especially at the present time due to the rapid state of change associated with the amount of information that exists.

It has also facilitated communication between human beings and has helped to provide different means of transport and introduced new agricultural methods that are a reason for increasing food production.

It should be noted that applications made in the field of health care and consequently positive, and many other technological means have developed the lives of people, and helped them save time and effort.

For example, technology supplies factories with many advanced machines and equipment that have helped to provide high-quality goods and services, facilitate production processes in factories, and make them less time and effort-consuming, in addition to reducing the cost of operating for the benefit of employers.

Importance of Technology in Domestic Work

Electric power provides light to people's homes and roads; it is used to power electrical tools, factories, etc. There are many modern tools that made it easier for people, such as a vacuum cleaner, which was replaced by old tools used to do so, as well as the electric heating device for various foods called (microwave), and the ordinary oven.

Microwaves became popular in the late '70s. It simplified the process of heating pre-cooked food. Also, while heating food, they are less prone to spread pollution when compared to regular gas stoves. That suits sustainable living, too!
Electricity has made it easier for the housewife to prepare food easily and quickly and many other modern tools that are truly a blessing from God to modern man.

		<p>Importance of Technology in Health Care</p> <p>Technology has helped doctors answer all patient queries faster. There are various technological innovations in the health sector, such as the invention of certain drugs, the development of information technology, biotechnology, and development processes. Technology constantly strives to contribute to the development of instruments and equipment used in the medical field and preserve the healthy lives of people and raise their standard of care.</p> <p>This has led to the development of some inventions to become larger and more useful and complex in installation, such as detectors and magnetic resonance imaging, and industrial devices with an automated system.</p> <p>Advanced medical devices have made it possible to detect many diseases and have facilitated their treatment. In addition, they have provided the opportunity to complete some types of treatment at home, resulting in a shorter stay in hospitals, and thus a reduction in the cost of treatment.</p>	
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School:

District: