

4

Lesson Exemplar for Science

Quarter 1

Week

1

Learning Activity Sheet for Science Grade 4

Quarter 1: Week 1

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| MATATAG K to 10 Curriculum Weekly Lesson Log | School | | Grade Level | 4 |
| | Name of Teacher | | Learning Area | Science |
| | Teaching Dates and Time | | Quarter | 1 |

| | DAY 1 | DAY 2 | DAY 3 | DAY 4 |
|--|--|---|---|---|
| I. CURRICULUM CONTENT, STANDARDS, AND LESSON COMPETENCIES | | | | |
| A. <i>Content Standards</i> | Science inventions have brought about major changes to our daily lives. | | | |
| B. <i>Performance Standards</i> | By the end of the Quarter, learners describe chemical properties of materials and changes to them. They demonstrate an understanding that science processes can solve everyday problems and use creativity and determination to provide examples. They exhibit objectivity and open-mindedness in gathering information related to environmental issues and concerns in the community. | | | |
| C. <i>Learning Competencies</i> | Use information from secondary sources to identify famous Filipino and/or foreign scientists and their invention/s. | Use information from home or local communities to identify a science invention and explain its impact on their everyday life. | | |
| D. <i>Learning Objectives</i> | At the end of the lesson, the learners should be able to: 1. identify famous Filipino and /or foreign scientists and their inventions; 2. describe the work of a scientist by answering the activity; and 3. give the importance of their inventions during their time. | At the end of the lesson, the learners should be able to: 1. identify science inventions found at home or in school; 2. classify these materials based on their uses; and 3. acknowledge the significance of inventions in the class discussion. | At the end of the lesson, the learners should be able to: 1. list inventions used at home, at school and at the garden; 2. discuss the importance of science inventions found at home; and 3. empathize with the scientists by finding solutions to solve simple problems. | At the end of the lesson, the learners should be able to: 1. explain the impact of the inventions of Filipino and/or foreign scientists on everyday life; 2. show proofs of the impact of such inventions; and 3. communicate the appreciation of the invention of the chosen scientist. |
| E. <i>Instructional Design</i> | Context (relevance to real-world situations) | Context (cultural and social factors) / innovative (creativity | Connection (Linking to practical applications) / Integrative (Problem solving) | Creativity (using different kinds of materials/resources) / Innovation (fostering curiosity |


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| <i>framework feature (s)</i> | / Inclusive (student centered, culturally responsive)/ engage (capturing learner's interest, provoking curiosity) | and originality) / Experience (real-world application) | / Explore (Problem solving tasks) Empathize (fostering emotional intelligence) | and exploration) / Experience (real world application) / Empathize (fostering emotional intelligence) |
| <i>F. 21st Century Skills</i> | Information, Media and technology skills (information literacy)/ Learning and innovation (Reflective thinking) | Learning and innovation skills (Critical thinking, reflective thinking) Communication skills (Interactive Communication) | Learning and innovation skills (Critical thinking, Problem solving, and reflective thinking) Communication Skills (Interactive Communication) | Learning and innovation skills (Critical thinking, reflective thinking, creativity) Communication Skills (Interactive Communication) Information, Media, and Technology Skills (Information Literacy) |
| II. CONTENT | Science Inventions | Science Inventions | Science Inventions | Science Inventions |
| III. LEARNING RESOURCES | | | | |
| <i>A. References</i> | Science Quarter 1 – Module 4: Changes in Materials that are Useful and Harmful to one's Environment. EASE Module 1 Great Inventors, Inspiring Inventions by Nathalie Louge, Suzanne Simard, and Pia Zorayda Busiños “I am a Scientist” by Brian Crawford | Science Quarter 1 – Module 4: Changes in Materials that are Useful and Harmful to one's Environment. EASE Module 1 Great Inventors, Inspiring Inventions by Nathalie Louge, Suzanne Simard, and Pia Zorayda Busiños | Science Quarter1 – Module 4: Changes in Materials that are Useful and Harmful to one's Environment. EASE Module 1 | Science Quarter 1 – Module 4: Changes in Materials that are Useful and Harmful to one's Environment. EASE Module 1 |
| <i>B. Other Learning Resources</i> | DOST Official Television Program DOSTv - Science for the People. (n.d.). https://www.dostv.ph/ | DOST Official Television Program DOSTv - Science for the People. (n.d.). https://www.dostv.ph/ | Fahmy, N. (2019, February 24). <i>Household Inventions that Changed Your Home Life The Past 100 Years</i> . Weetas Real Estate Blog, | <i>Little School. (2023, March 1). What is Wind Energy Science for Kids [Video]. YouTube. https://www.youtube.com/watch?v=_8DtGAp1fyI</i> |

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| | blog/top-10-filipino-scientists-who-made-a-remarkable%20-contribution-to-the-field-of-science | h/blog/top-10-filipino-scientists-who-made-a-remarkable%20-contribution-to-the-field-of-science | Market Stats, Real Estate Analysis. https://www.weetas.com/article/modern-inventions/ | |
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IV. TEACHING AND LEARNING PROCEDURES

Before/Pre-Lesson Proper

| <div>Activating Prior Knowledge</div> | <div>Nowadays, people use sophisticated materials to make work easier and faster. The teacher will show real items commonly used at home and school. Let the learners classify these items using Worksheet 1 Activity 1. 1 The teacher will observe the learners during the activity. Let the learners complete the activity and provide feedback.</div> | <div>Let the learners complete the graphic organizer to recall scientists and their inventions. Observe, discuss, and provide feedback.</div> <div><table><thead><tr><th>Scientists</th><th>Invention</th></tr></thead><tbody><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></tbody></table></div> <div>The teacher will establish the linkage of ideas to the lesson on the use of information from home or in the local community to identify a science invention.</div> | Scientists | Invention | | | | | | | | | | | <div>Let the learners complete the graphic organizer (Worksheet 1 Activity 3.1) Discuss the importance of science inventions.</div> <div></div> | <div>Let learners bring out materials from their bags and discuss their importance.</div> <div>Facilitate sharing and discuss the impact of scientific inventions on everyday life.</div> |
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| Scientists | Invention | | | | | | | | | | | | | | | |
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| <div>Lesson Purpose/Intention</div> | <div>Present and explain to the learners that most items we use at home,</div> | <div>Begin by discussing the concept of inventions with the</div> | <div>The teacher will present to the learners that the lesson is all about the use of</div> | <div>The teacher will explain to the learners the impact of Filipino or</div> | | | | | | | | | | | | |

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| | <p>school, and in the community are products of scientific inventions.</p> | <p>class. Ask students to provide examples of inventions they use in their daily lives.</p> <p>The teacher will explain to the learners that this lesson focuses on using information from the home or the local community to identify a science invention.</p> | <p>information from the home or the local community to identify a science invention and its importance.</p> | <p>foreign scientists and their inventions on everyday life.</p> |
| <p><i>Lesson Language Practice</i></p> | <p>Let learners read the poem "I Am a Scientist" by Brian Crawford (Worksheet 1 Activity 1.2). Help learners understand difficult words and phrases. Discuss scientists' attitudes and processes."</p>  <p>Gregorio Zara</p> <p>#BSEC2024</p> <p><i>Guide Questions:</i></p> | <p>Divide the class into five (5) groups. Let them accomplish Activity 2.1 in Worksheet 1.</p> <p>The teacher will observe learners' answers. Let the learners complete the activity and give feedback.</p> <p>The teacher will connect the learners' answers in the lesson by giving answers to the following questions:</p> <p>Q1. What common materials did you use to accomplish the identified tasks?</p> | <p>Divide the class into five (5) groups. Let them accomplish the activity provided in the Worksheet 1 Activity 3.2.</p> <p>The teacher will observe the learner's answers. Let the learners present their answers and give positive feedback.</p> <p>The teacher will facilitate the discussion by asking the learners to give their insights on the uses of the materials given in the task. Then, the teacher will provide additional information/knowledge on those cited/identified terms, phrases, and sentences.</p> | <p>Show a video about windmills and their importance. Discuss unfamiliar terms and provide insights and additional information.</p> <p><i>Note:</i> <i>The teacher may download other videos that are available and common in the local community.</i></p> |

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| | <p>1.What should be the attitude of a scientist?</p> <p>2.What are the scientific processes that scientists do before discovering something?</p> <p>3. Based on the poem, how do you describe the work of a scientist?</p> | <p>Q2. What would your life be if these materials you use every day were not invented?</p> | | |
| During/Lesson Proper | | | | |
| <p><i>Reading the Key Idea/Stem</i></p> | <p>The teacher will present the following foreign and Filipino scientists and their inventions.</p> <p>Suggested local and foreign scientists:</p> <p>1. Gregorio Y. Zara was a Filipino engineer and physicist born in 1902 in Lipa, Batangas. Zara invented thirty devices throughout his career, which made life easier for people by improving their daily activities. He invented solar devices that use energy from the sun which can be used in places where electric wires could not reach. He also invented a compass, a device that pilots</p> | <p>The teacher will give the learners a passage about Gregorio Zara from the Leveled Reader (Chapter 1-6) titled Great Inventors, Inspiring Inventions by Nathalie Louge, Suzanne Simard, and Pia Zorayda Busiños, with illustrations by Rea Diwata Mendoza.</p> <p><i>(Refer to Worksheet Day 2 Activity 2.2)</i></p> <p>The teacher will facilitate the class reading by explaining unfamiliar terms, phrases, or sentences so that learners can understand the passage. Then, the teacher will provide additional information/knowledge on those difficult</p> | <p>Many devices around us, in our homes and communities, have made our lives easier and more comfortable.</p> <p>1. Television – Television is more commonly known as TV. It is a device used for viewing entertainment shows, newscasts, sports, and other programs from the comfort of our own home. It was introduced in 1920, but the modern-colored television appeared around 1940.</p> <p>2. Video game console - A video game console is an electronic device that displays and allows one or more people to play a video game. Gaming consoles changed the way people entertain themselves indoors. They can even help</p> | <p>Let the learners watch a video from YouTube about windmills</p> <p>YouTube link: https://youtu.be/_8DtGAp1fyI?si=TjGzOrFGdG-Y3eof</p> <p><i>Note: The teacher may use other inventions based on the experiences, interest and culture of the learners.</i></p> <p>Let the learners read the passage, analyze it, and then answer the guide questions below.</p> <p>Q1. How does a windmill work to produce electricity?</p> <p>Q2. What is the impact of windmills on everyday life of the people in the community?</p> <p>The teacher will observe learners' answers and will ask the learners to answer</p> |

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| | <p>still use today for navigation. One of Zara's biggest inventions was the video phone.</p> <p>2. Fe del Mundo was the first woman recognized as a national scientist and invented the world's initial bamboo incubator in 1941.</p> <p>3. Narciso Mosuela was a farmer who invented the superkalan for cooking in 2008.</p> <p>4. Lawrence Luellen discovered the disposable cup with a lid in 1907, which is now widely used at parties and events.</p> <p>Other suggested scientists with contribution to chemistry and Natural Products of the Philippines:</p> <p>1. Dr. Ma. Alicia Aguinaldo: Philippine medicinal plants studies for the medicinal use as potential alternate</p> | <p>terms, phrases, or sentences.</p> | <p>people stay physically fit by exercising and participating in indoor sports.</p> <p>3. Refrigerator - The refrigerator allows the modern household to keep food fresh for longer periods. Freezers enable people to freeze food and extend its expiration date for even longer periods. It also gives you many other conveniences like making ice, chilling fruit, and cooling water. In 1923, Frigidaire introduced the first self-contained refrigerators for home use. Soon after, it became widely popular.</p> <p>4. Washing Machine - A washing machine is a home appliance used to wash laundry, such as clothes and sheets. In 1937, Bendix corporation introduced the first domestic automatic washing machine.</p> <p>5. Microwave oven - The microwave oven, created around 70 years ago, is most used for rapid reheating of cooked foods but can also be</p> | <p>voluntarily and give positive feedback.</p> |
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| | <p>drugs for therapy. https://spheres.dost.gov.ph/profiles/84-ma-alicia-m-aguinaldo</p> <p>2. Acd. Maribel G. Nonato: Academician , National Academy of Science and Technology. Her works on natural products specifically Pandan as a medicinal plant. https://spheres.dost.gov.ph/profiles/871-maribel-g-nonato</p> <p>You may visit also this link: Scientists: SciJournal. (n.d.). Famous Filipino Scientists. Retrieved from SciJournal, https://www.scijournal.org/articles/famous-filipino-scientists</p> | | <p>used for cooking, grilling, or baking.</p> <p>6. Light Emitting Diode (LED) - The earliest LEDs appeared as practical electronic components in 1962.</p> <p>Infrared LEDs are frequently used as transmitting elements in remote-control circuits, such as those found in many different types of consumer electronics remote controls. With the development of high-efficiency and high-power LEDs, it is now possible to use LEDs in lighting and illumination. Most homes are switching to LED lamps.</p> <p>LEDs are also used as a light source to backlight LCD televisions (LED TVs), and laptop displays. LED backlighting can make TV and computer display screens thinner.</p> <p>The teacher will facilitate the class reading and unlock unfamiliar terms, phrases, or sentences so that the learners will understand the concept of the passage.</p> | |
| <i>Developing Understanding of the Key Idea/ Stem</i> | The teacher will process the lesson and emphasize that | The teacher will facilitate the discussion by | Name one invention used in each of the given places and give its importance/ use. | Think-Pair-Share: Let the learners accomplish Activity 4 in Worksheet 1. Let |

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| | <p>materials we use at home, school, and in our community are products of scientists' inventions.</p> <p>The teacher may provide more foreign and Filipino scientists according to the learners' capacity in processing information.</p> | <p>answering the following questions:</p> <p>Q1. Who is the scientist mentioned in the story?</p> <p>Q2. What is the biggest invention of the scientist in the story?</p> <p>Q3. How are video phones different from normal phones?</p> <p>Q4. How do video phones work?</p> <p>Q5. How useful are video phones?</p> <p>The teacher will build connection with the task to the lesson on using information at home, school, and community to identify science inventions.</p> <p>The teacher will facilitate the presentation/discussion and give feedback.</p> | <p>a. at home b. at school c. at the garden (Refer to Worksheet 1 Activity 3.3)</p> <p>The teacher will observe the learner's answers. Let the learners present their answers and give positive feedback.</p> | <p>them discuss their answers with another classmate and then have them share their discussion to the class and highlight the important concepts.</p> |
| <p><i>Deepening Understanding of the Key Idea/Stem</i></p> | <p>The learners are grouped into 5. Each group is provided an album of inventors on a tablet or physical album. Let them choose</p> | <p>The teacher will assign the learner to identify five materials found at home, school, or in the community and</p> | <p>The teacher will ask the learners to read out and answer the following guide questions:</p> | <p>The teacher will ask the learners to read out and answer the following questions:</p> <p>How do scientists' inventions such as cellphones, fluorescent</p> |

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| | <p>2 inventions they liked most and explain why.</p> <p>The teacher will observe learners' answers and will ask the learners to volunteer their answers and give positive feedback.</p> <p><i>(The teacher may provide other secondary sources of information like science books, journals, and other valid resources)</i></p> | <p>search who invented it and how these materials were developed. Let them further classify these materials based on their uses. Write their answers in a science notebook.</p> <p>The teacher will ask the learners to share their answers to the class and select sample answers for all learners to be written on their science notebook.</p> | <p>1. What have you realized after doing the tasks?</p> <p>2. How did the given materials help in your daily life?</p> <p>The teacher will observe learners' answers and will ask the learners to share their answers and provide positive feedback.</p> | <p>lamps, laptop computers, and the like affect your life?</p> |
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After/Post-Lesson Proper

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| <p><i>Making Generalizations and Abstractions</i></p> | <p>The teacher will ask the learners to answer the following questions through class discussion.</p> <p>Has this lesson helped you to identify Foreign and Filipino scientists and their inventions? Explain your answer.</p> | <p>The teacher will highlight the uses of the identified science inventions and check if the learners classify these inventions correctly.</p> <p>The teacher will ask the learners to answer the listed question through class discussion or writing the answers in their Worksheet.</p> <p>What is your favorite scientist's invention?</p> | <p>If you were a scientist, what invention would you create to address our present needs? Why?"</p> | <p>Discuss how this lesson has helped you understand Foreign and Filipino scientists and their inventions</p> |
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| | | Why do you think is it important? | | | | | | | | | | | | | | |
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| <i>Evaluating Learning</i> | Match each scientist from Column A with their corresponding invention from Column B. | Classify the materials into food/medicine, cleaning materials, and tools/gadgets. | A Dark Evening It was a stormy evening, and the heavy rain outside was accompanied by gusts of wind that rattled the windows. At home, the Santos family gathered in the living room. Suddenly, there was a power outage, plunging the house into darkness. The family exchanged concerned glances realizing they couldn't see anything. With a sigh, Mr. Santos reached into the kitchen drawer and found a flashlight. He switched it on, casting a small beam of light across the room. Mrs. Santos quickly lit a few candles, providing a soft glow in the darkness. The children went closer to their parents, feeling uneasy in the unfamiliar shadows. As they waited for the power to return, Mr. Santos reflected on how the light bulb transformed their lives. From reading bedtime stories to cooking dinner and playing games together, light bulb illuminated their home and made everything easier and safer. | Written Work: Write a composition highlighting a foreign or Filipino scientist and his invention/s. (Refer to Worksheet 1 Day 4 for the scoring rubrics) | | | | | | | | | | | | |
| | Column A | <table><tr><td>tablets</td><td>pen</td></tr><tr><td>antibiotics</td><td>scissors</td></tr><tr><td>toothbrush</td><td>ointment</td></tr><tr><td>plastic bags</td><td>bath soap</td></tr><tr><td>shampoo</td><td>cellphone</td></tr><tr><td>tissue paper</td><td>cotton</td></tr></table> | tablets | pen | antibiotics | scissors | toothbrush | ointment | plastic bags | bath soap | shampoo | cellphone | tissue paper | cotton | | |
| | tablets | pen | | | | | | | | | | | | | | |
| | antibiotics | scissors | | | | | | | | | | | | | | |
| | toothbrush | ointment | | | | | | | | | | | | | | |
| | plastic bags | bath soap | | | | | | | | | | | | | | |
| | shampoo | cellphone | | | | | | | | | | | | | | |
| tissue paper | cotton | | | | | | | | | | | | | | | |
| Column B | <table><tr><th>Food/ Medicine</th><th>Cleaning Material</th><th>Tool/ Gadget</th></tr><tr><td></td><td></td><td></td></tr></table> | Food/ Medicine | Cleaning Material | Tool/ Gadget | | | | | | | | | | | | |
| Food/ Medicine | Cleaning Material | Tool/ Gadget | | | | | | | | | | | | | | |
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| 1. He was from Batangas who invented the Videophone. | a. Narciso Mosuel a | | | | | | | | | | | | | | | |
| 2. He created a way to heat balut-duck eggs with chicks inside. | b. Gregori o Zara | | | | | | | | | | | | | | | |
| 3. He invented the <i>super Kalan</i> which is used by restaurants in cooking. | c. Alexan der Graha m Bell | | | | | | | | | | | | | | | |
| 4. He invented the telephone which is used in long distance communicatio n. | d. Fe del Mundo | | | | | | | | | | | | | | | |
| 5. She invented the bamboo incubator | e. Fernan do Paras, Jr. | | | | | | | | | | | | | | | |

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| | | | <p>As the storm continued, the Santos family found comfort in the glow of the flashlight and candles. They knew that when the power eventually returned, their light bulbs would once again brighten their home.</p> <p>Answer the questions about the short story.</p> <p>1. What common invention at Santos Family's home was affected by the power shortage?</p> <ol style="list-style-type: none"> candle flashlight light bulb kitchen drawer <p>2. Which alternative source of light did the Santos family use during the power shortage? Are they classified as inventions?</p> <ol style="list-style-type: none"> candle and flashlight, no candle and flashlight, yes. light bulb and flashlight, no light bulb and candle, yes <p>3. Are the realizations of the Santos Family about the importance of light bulbs similar to your appreciation of the light bulb? Explain.</p> | |
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| | | | <p>a. Yes, light bulbs illuminate our environment.</p> <p>b. Yes, the light bulb helps me see things at home during the night.</p> <p>b. Yes, a light bulb helps me see the words I am reading before going to sleep.</p> <p>c. Yes, the light bulb helps me and my family see clearly at night.</p> <p>4. How can you ensure your house is well-lit during a power shortage?</p> <p>a. Secure candles at the stockroom</p> <p>b. Install a solar-powered light bulb.</p> <p>c. Always recharge flashlights</p> <p>d. Open the windows.</p> | |
| <i>Additional Activities for Application or Remediation (if applicable)</i> | | | | |
| <i>Remarks</i> | | | | |
| <i>Reflection</i> | | | | |

| <u>Activity 1.1: (Answers may vary)</u> Ex: <table><tr><td>Food</td><td>Health</td><td>Cleaning Agent</td><td>Gadget</td></tr><tr><td>Candy</td><td>Medicine</td><td>Soap</td><td>Cellphone</td></tr></table> | Food | Health | Cleaning Agent | Gadget | Candy | Medicine | Soap | Cellphone | <u>Activity 1.2: (Possible answers)</u> 1. Study nature and take a close look at things, form a “hypothesis”, conduct a short test of your hypothesis, find the answer or conclusion based on your test results, share your findings. 2. Ask questions, identify problems, do research, form hypotheses, perform tests, make conclusions, share discoveries 3. Curious, industrious, critical thinker, open-minded, etc. | <u>Assessment:</u> 1. b. 2. e. 3. a. 4. b. 5. d. |
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| Food | Health | Cleaning Agent | Gadget | | | | | | | |
| Candy | Medicine | Soap | Cellphone | | | | | | | |
| <u>Activity 2.1</u> 1. personal hygiene products, pail, 2. plate, spoon, fork 3. bike, tricycle, jeepney 4. lunchbox, water bottle 5. broom, dustpan, | <u>Activity 2.2</u> 1. The scientist referred to in the story is Gregorio Zara. 2. Gregorio Zara’s biggest invention is the video phone. 3. Normal phones send and receive only sound, while video phones send videos, sounds, and images. 4. Video phones transmit images, sounds, and videos from one video phone to another. 5. Video phones are useful because they facilitate easier communication. | <u>Assessment:</u> <table><tr><th>Food/ Medicine</th><th>Cleaning Material</th><th>Tool/ Gadget</th></tr><tr><td>antibiotics ointment cotton</td><td>plastic bag bath soap shampoo toothbrush tissue paper</td><td>tablet pen scissors cellphone</td></tr></table> | Food/ Medicine | Cleaning Material | Tool/ Gadget | antibiotics ointment cotton | plastic bag bath soap shampoo toothbrush tissue paper | tablet pen scissors cellphone | | |
| Food/ Medicine | Cleaning Material | Tool/ Gadget | | | | | | | | |
| antibiotics ointment cotton | plastic bag bath soap shampoo toothbrush tissue paper | tablet pen scissors cellphone | | | | | | | | |
| <u>Day 3 Activity 3 (Possible answers)</u> 1. A laptop can be used for communication, studying, and entertainment. 2. A drinking straw provides a convenient and hygienic way to consume drinks. | <u>Activity 3.2: (Possible answers)</u> 1. Styrofoam is commonly used for packaging materials and disposable containers. 2. Cotton balls are used for applying skincare products or for cleaning wounds. 3. Oven is a kitchen appliance used for baking, roasting and heating food. 4. Cleaning materials are substances or tools used to remove dirt or stains. | <u>Assessment:</u> 1.c 2.b 3.d 4.b | | | | | | | | |

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| <p>3. The cellphone has similar functions to a laptop</p> <p>4. Plastic bottles are commonly used for packaging beverages and other liquids.</p> <p>5. Disposable cups offer a convenient and hygienic way to serve beverages.</p> | <p>5. Bath soap removes dirt, oils, and bacteria promoting hygiene and preventing infections.</p> <p><u>Activity 3.3:</u></p> <p>1. Laptop computer - a portable computer that can be used for word processing, computing, entertainment, and gaming.</p> <p>2.. Cell Phone - portable electronic device used for communication through voice calls, text messages, and internet access.</p> <p>3. Plastic Bottle - plastic containers that hold liquids or beverages for purposes of transporting a drink for travelling.</p> <p>4. Plastic Disposable cup - plastic containers that hold cold drinks like milk tea, fruit shake, fruit juices, and water.</p> | |
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