




Challenge No.	Partner	Environment	Skill Targeted	Challenge	Items	Pictures	Dialogue	Other Commnets	Sample Scenario Chart
SCENARIOS PROVIDED BY PARTNERS									
Scenario 1: Tracking Animal Footprints	P3 EMP		Tracking Animal Footprints Observation and tracking	<p>Step 1: Introduce the scenario and explain the importance of tracking animal footprints.</p> <p>Step 2: Display images or 3D models of various footprints.</p> <p>Step 3: Ask the user to match the footprint to the animal.</p> <p>Step 4: Provide immediate feedback on the selection.</p> <p>Feedback if Correct: "Excellent! You matched the tracks correctly." with an encouraging visual cue "Confetti".</p> <p>Feedback if Wrong: "That doesn't seem to match. Please try again." along with a visual indicator (e.g., red X).</p>	Magnifying glass tool, Interactive footprint models		<p>Dialogue1: "Let's learn how to track wildlife by examining their footprints."</p> <p>Dialogue2: "Observe these footprints carefully."</p> <p>Dialogue3: "Which animal do you think left these tracks?"</p> <p>Dialogue4: "Excellent! You matched the tracks correctly."</p> <p>Dialogue5: "That doesn't seem to match. Please try again."</p> <p>Dialogue6: "Great work! Moving to the next challenge."</p>		
Scenario 2: Tree Health Assessment	P3 EMP	Forest	Tree Health Assessment Botany and conservation assessment	<p>Step 1: Introduce the concept of assessing tree health.</p> <p>Step 2: Display several tree models with different conditions (healthy, diseased, damaged).</p> <p>Step 3: Instruct the player to identify signs of poor health in one of the trees.</p> <p>Step 4: Provide feedback based on the player's identification.</p> <p>Feedback if Correct: "Correct! That tree shows clear signs of poor health." with a positive visual cue "Confetti".</p> <p>Feedback if Wrong: "That is not the correct choice. Please review the trees again." with a red X indicator.</p>	Inspection kit, visual tree models		<p>Dialogue1: "Our next activity involves assessing the health of trees."</p> <p>Dialogue2: "Examine these trees for signs of disease or damage."</p> <p>Dialogue3: "Which tree appears to be unhealthy?"</p> <p>Dialogue4: "Correct! That tree shows signs of poor health."</p> <p>Dialogue5: "That is not the correct choice. Please review the trees again."</p> <p>Dialogue6: "Good job! Let's move on."</p>		
Scenario 3: Water Quality Testing in a Forest Stream	P3 EMP	Forest	Water Quality Testing in a Forest Stream Environmental monitoring	<p>Step 1: Introduce the task of water quality testing.</p> <p>Step 2: Display a virtual stream alongside the water testing kit.</p> <p>Step 3: Explain how to use the testing kit to analyze water samples.</p> <p>Step 4: Ask the player to identify which water sample is safe for wildlife.</p> <p>Feedback if Correct: "Correct! This water sample is safe for wildlife." with visual confirmation (e.g., Confetti).</p> <p>Feedback if Wrong: "That sample is contaminated. Please try again." with a red X.</p>	Water testing kit, sample vials		<p>Dialogue1: "Let's test the water quality of this forest stream."</p> <p>Dialogue2: "Observe the stream and the testing equipment provided."</p> <p>Dialogue3: "Use the kit to analyze the water samples."</p> <p>Dialogue4 (Correct): "Correct! This water sample is safe for wildlife."</p> <p>Dialogue5 (Wrong): "That sample is contaminated. Please try again."</p> <p>Dialogue6: "Great job! Moving on to the next challenge."</p>		
Scenario 4	P1	Forest	Identifying environmental hazards	<p>Step 1: Introduce player to the Scenario Type (Environmental Conservation). Display forest scene with environmental badge icon and text "Scenario Type: Environmental Conservation"</p> <p>Step 2: Introduce player to the Scenario Activity (identifying pollution and sorting waste).</p> <p>Text: "Activity: Detect and sort waste to protect the forest ecosystem."</p> <p>Step 3: Show/present the objects/tools needed in the activity.</p> <ul style="list-style-type: none"> •Place in player's hand: Pollution Scanner •Spawn in environment: oil barrel, plastic bottle, rusted metal can •Show color-coded bins: Red (Toxic), Blue (Recyclable), Grey (Metal) <p>Step 4: Show Multiple choice question or 3D object display and let user identify the object.</p> <ul style="list-style-type: none"> •Scan object: Plastic bottle •Show MCQ UI: <ul style="list-style-type: none"> A) Blue bin (Recyclable) (correct) B) Green bin (Organic) (wrong) •Scan object: Oil barrel •Show MCQ UI: <ul style="list-style-type: none"> A) Red bin (Toxic) (correct) B) Blue bin (Recyclable) (wrong) <p>Step 5: Acknowledge user's answer.</p> <ul style="list-style-type: none"> •If correct: Show Confetti + Green Checkmark •If wrong: Display Red X + Text: "Try again. That's not the right bin." <p>Upon finishing all items: Unlock badge "Forest Defender"</p>	<p>Pollution Scanner: handheld tool to detect contaminated objects</p> <p>Color-coded bins Red: Toxic Waste Blue: Recyclables Grey: Metal</p> <p>Waste Objects (3D Models): Leaking oil barrel Plastic bottle Rusty metal can</p>		<p>Dialogue1: We are now here to explore and learn about Environmental Conservation.</p> <p>Dialogue2: In our fifth activity, we will identify and sort pollution found in the forest.</p> <p>Dialogue3: Your pollution scanner is now active. Scan each object and tell us which bin it belongs to.</p> <p>Dialogue4: Where should this object go?</p> <p>Dialogue5: Well done! You answered it correctly!</p> <p>Dialogue6: It's not the correct answer. Try again.</p> <p>Dialogue7: Let's go to the next activity.</p>		
Scenario 5	P6	Forest	Choosing the Right Conservation Strategy for a Protected Forest (Understanding different environmental conservation strategies and their impact on forest health and biodiversity)	<p>Step 1: Scenario Introduction</p> <p>Display a scene of a lush, protected forest area with diverse flora and fauna, along with an environmental badge icon and the text "Scenario type: choosing conservation strategies".</p> <p>Step 2: Activity Introduction</p> <p>Text: "Activity: Select the most suitable conservation strategies to maintain the health and biodiversity of this protected forest."</p> <p>Step 3: Show the options/tools needed in the activity</p> <p>Display a "Conservation Strategy Tablet" (virtual).</p> <p>Display in the environment: areas showing signs of different environmental challenges (e.g., soil erosion, invasive species, illegal logging, wildfire risk).</p> <p>Display three conservation strategy stations with colored icons:</p> <ul style="list-style-type: none"> o Yellow (Reforestation) o Blue (Invasive Species Removal) o Green (Controlled Burn) <p>Step 4: Display the multiple-choice question or interaction with the 3D object and allow the user to identify the appropriate conservation strategy.</p> <p>Scenario 1 (Soil Erosion):</p> <ul style="list-style-type: none"> o Use the conservation strategy tablet on the area with soil erosion. o Display the MCQ interface: A) Yellow Station (Reforestation) (correct) B) Blue Station (Invasive Species Removal) (incorrect) <p>Scenario 2 (Invasive Species):</p> <ul style="list-style-type: none"> o Use the conservation strategy tablet on the area infested with invasive species. o Display the MCQ interface: A) Blue Station (Invasive Species Removal) (correct) B) Green Station (Controlled Burn) (incorrect) <p>Scenario 3 (Wildfire Risk):</p> <ul style="list-style-type: none"> o Use the conservation strategy tablet on the area with high wildfire risk. o Display the MCQ interface: A) Green Station (Controlled Burn) (correct) B) Yellow Station (Reforestation) (incorrect) <p>Step 5: Confirm the user's answer</p> <ul style="list-style-type: none"> • Correct: Display confetti + a green check mark. • Incorrect: Display a red X + text: "Try again. This is not the right conservation strategy for this situation." <p>After completing all strategy selections, unlock the "Forest Guardian" badge.</p>	<p>•Conservation Strategy Tablet – Virtual tool for choosing conservation strategies</p> <p>•Forest Health Guide – A booklet with information on forest ecosystems and conservation techniques</p> <p>•Protective Gear – Appropriate clothing and equipment for working in the forest</p> <p>•Monitoring Tools – Tools for assessing forest health (e.g., soil testing kit, tree measurement tools)</p> <p>•Seedling Nursery – A small area for growing native tree seedlings</p>		<p>Dialogue1: We are now here to explore and learn about choosing the right conservation strategies for this protected forest.</p> <p>Dialogue2: In our first activity, we will select conservation strategies to maintain the health and biodiversity of the forest.</p> <p>Dialogue3: Your Conservation Strategy Tablet is now active. Use it to identify the best strategy for each situation.</p> <p>Dialogue4: Which conservation strategy should we use in this area of the forest?</p> <p>Dialogue5: Well done! You answered it correctly!</p> <p>Dialogue6: It's not the correct answer. Try again.</p> <p>Dialogue7: Let's go to the next activity.</p>		

Scenario 6	P4	Forest	<p>Reforestation and tree planting (Understanding the importance of reforestation and learning how to plant trees properly)</p>	<p>Step 1: Scenario introduction Display a forest scene with areas affected by deforestation. Show an environmental badge icon with the text: "Scenario Type: Forest Restoration."</p> <p>Step 2: Activity introduction Text: "Activity: Plant new trees to restore the forest and support wildlife."</p> <p>Step 3: Show the objects/Tools needed in the activity Give the player a "Tree Planting Kit" (virtual).</p> <p>Display in the environment: Empty land patches (where trees can be planted). Tree seedlings (various native species). Shovel and watering can.</p> <p>Display three planting zones with colored icons: Green (Ideal soil, Correct spot) – Best for growth Yellow (Rocky soil, Partial growth) – Less effective Red (Barren land, No growth) – Incorrect choice</p> <p>Step 4: Interaction with the 3D object & multiple choice question</p> <p>Scenario 1 (First tree planting spot)</p> <p>Use the tree planting kit to dig a hole.</p> <p>Display the MCQ interface:</p> <p>A) Green Zone (Ideal Soil) (Correct Choice) B) Red Zone (Barren Land) (Incorrect Choice)</p> <p>Scenario 2 (Second tree planting spot)</p> <p>Place a seedling in the hole. Display the MCQ interface:</p> <p>A) Water the seedling immediately (Correct Choice) B) Leave it without water (Incorrect Choice)</p> <p>Scenario 3 (Third tree planting spot)</p> <p>Select the right tree species for the area.</p> <p>Display the MCQ interface:</p> <p>A) Plant a native tree species (Correct Choice) B) Plant an invasive species (Incorrect Choice)</p> <p>Step 5: Confirm the user's answer</p> <p>Correct answer:</p> <p>Display confetti + a green check mark. Text: "Great job! This tree will grow strong and support the ecosystem!"</p> <p>Incorrect answer: Display a red X + text: "Try again. This is not the right way to plant a tree." After planting all trees correctly, unlock the "Forest Guardian" badge.</p>	<p>Forest Health Guide – A booklet with information on forest ecosystems and conservation techniques</p> <p>Monitoring Tools – Tools for assessing forest health (e.g., soil testing kit, tree measurement tools)</p> <p>Seedling Nursery – A small area for growing native tree seedlings</p>		<p>Dialogue 1: "Welcome to the forest! We need your help to restore it by planting trees." Dialogue 2: "Look around! You'll see empty patches of land where trees once stood." Dialogue 3: "Let's use our tools to plant new trees. Grab a shovel and a seedling!" Dialogue 4: "Where should we plant this tree? Choose the best soil for growth." Dialogue 5: "Great choice! Now, let's water the seedling to help it grow." Dialogue 6: "This species is not suited for the environment. Try again!" Dialogue 7: "Congratulations! You've successfully planted trees and helped restore the forest."</p>		
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Scenario 7	P2	Forest	<p>Sustainable management of forest resources (Understanding how to exploit forest resources in a sustainable way, avoiding environmental degradation)</p>	<p>Step 1: Introduce player to the scenario type "Welcome to the world of Environmental Conservation!" Forests are one of the most valuable ecosystems on our planet. As a forest conservation manager, your role is to protect and manage forest resources responsibly to ensure their sustainability for future generations.</p> <p>Step 2: Introduce player to the scenario activity The mission is the sustainable management of resources. Your job is to make responsible decisions about how to use forest resources without damaging the ecosystem. You'll need to be able to evaluate different scenarios and choose the best approach for a healthy and prosperous forest.</p> <p>Step 3: Show possible tools for sustainable forest management. You can take inspiration from the following tools: - Tree health scanner (to identify which trees can be cut for sustainable logging) - Eco-friendly logging equipment (to ensure minimal impact on the environment) - wildfire prevention kit (to reduce the risk of forest fires) (Players see 3D models of each tool including a short description)</p> <p>Step 4: Show multiple choice question Scenario: you area managing a section of the forest where some trees have reached the end of their life cycle. You need to decide the best way to manage it while ensuring the forest remains healthy. What should you do? A) Cut down all the trees in the area to obtain the maximum wood production. B) Selectively remove only the oldest trees and plant new ones in their place. (correct answer) C) Leave the trees as they are, even if they are diseased and decaying.</p> <p>Step 5: Acknowledge user's answer - If correct: show Confetti + include the sentence "Great job! By choosing selective cutting, you help maintain the balance of the ecosystem while ensuring sustainable use of resources" - If wrong: Display Red X + include the sentence "Oops! That's not the best choice. Overcutting can lead to deforestation, while leaving sick trees unchecked may spread disease. Try again!"</p>	<p>Tree health scanner</p> <p>Eco-friendly logging equipment</p> <p>Wildfire prevention</p> 	<p>Dialogue 1: We are here to learn how to manage forest resources sustainably.</p> <p>Dialogue 2: In this activity, you will decide how to cut trees in a responsible way.</p> <p>Dialogue 3: In front of you is the Tree Health Scanner. Use it to check which trees are ready for cutting.</p> <p>Dialogue 4: Which tree should be removed to keep the forest healthy?</p> <p>Dialogue 5: Well done! You chose the right tree!</p> <p>Dialogue 6: That's not correct. Think about which tree is old or sick. Try again!</p> <p>Dialogue 7: Let's move to the next challenge!</p>
Scenario 8	P5	Forest	<p>Identifying types of trees</p>	<p>Step 1: Player enters a forest area. Step 2: Player finds a virtual "Leaf identifier" station in the forest. They use it to scan or select leaves and match them to the correct leaf tree species. Step 3: Player must tag three different types correctly. Step 4: Player earns a green badge for successful identification.</p>	<p>Leaf Identifier Station, Leaf Samples, Notebook</p>	<p>Dialogue1: "Welcome explorer! Today we will learn to identify trees by their leaves. Are you ready to become a nature expert?"</p> <p>Dialogue2: "Pick a leaf and match it to the correct tree!"</p> <p>If correct; Dialogue 3: Nice job! Or else Dialogue3: So close...Try again!</p>