



Name of the Activity: **Creating a water-saving mobile application**

		Outcomes	Teaching and Learning Activities	Assessment
Blended Learning Format - Face-to-face		Understanding the environmental importance of water conservation	<i>The Importance of Water Conservation:</i> Students are divided into small groups to discuss why water conservation is essential and share ways to save water in daily life. Additionally, a short video on climate change and diminishing natural water resources is shown.	Classroom observation and assessment are based on students' sharing of ideas about the necessity of water conservation.
		Identifying key features for a water-saving mobile application	<i>Developing App Features:</i> Groups decide on essential features that a water-saving mobile app should have. Examples include water-saving tips and daily water usage tracking. A common app design is created based on selected features.	Students present their app designs to the class in groups and receive feedback from other groups.
		Coding the app's basic functions	<i>Coding Workshop:</i> Students code the app's main functions using App Inventor's block-based programming. For example, they add a button function related to "Water-Saving Tips." Each group receives guidance and works collaboratively to solve coding issues.	Groups test their apps using the "AI Companion" and present encountered issues to the class, receiving suggestions to improve their app.
		Designing a campaign to raise awareness about water conservation	<i>Awareness Campaign:</i> Groups develop a campaign idea, such as a poster, video, or banner, to promote water conservation. Each group presents their campaign to the class, highlighting the importance of water conservation and the benefits of the app.	Campaigns are presented to the class, and the most effective ideas are identified through class discussions. A short self-assessment is collected from students.
Interactive		Let's get to know the website where the Mobile Application will be made.	H5P-task – multiple choice	Assessment via interactive tasks



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Learning Tasks, Gamification/ Nudging / Online		Let's get to know AppInventor	H5P-task – multiple choice	Assessment via interactive tasks
		Let's get to know the coding area of AppInventor	H5P-task – multiple choice	Assessment via interactive tasks
		Let's get to know AppInventor's design space	H5P-task – multiple choice	Assessment via interactive tasks