



Name of the Activity: **Water wheel a source of renewable energy**

	Outcomes	Teaching and Learning activities	Assessment
	Having taken this activity, the participants will be able to:	The participants will be taught to achieve this specific outcome through the following learning activities:	The participants will be assessed on their achievement of this specific outcome through the following assessment tasks:
Blended Learning For mat - Face-to-face	Recognize what renewable energy means and why it is important for the environment and society.	Presentation with a classroom discussion introducing renewable energy sources and their significance, including examples.	Participation in group discussions; individual reflections on renewable energy.
	Explain what a water wheel is and how it works.	Presentation with a classroom discussion introducing how a water wheel operates.	Participation in group discussions; individual reflections on water wheel.
	Plan the water wheel's design (e.g., number of paddles, size, and balance).	Watching a video about how to construct a water wheel.	Participation in group discussions.
	Collaborate effectively in teams to complete the group project.	Group activities: brainstorming, assigning roles, and assembling the water wheel.	Observation of teamwork during group activities; peer feedback on collaboration.
	Test the water wheel with different water flows and with weights added to axle.	Observing water wheel motion.	Written or verbal reflection shared in class.
Interactive Learning Tasks,	Understand renewable energy definition.	H5P-task – true-false.	Assessment via interactive tasks.
	Differentiate the water wheel definition.	H5P-task – multiple choice.	Assessment via interactive tasks.
	Recognize water wheel components.	H5P-task – cross words	Assessment via interactive tasks.



STEM for inclusive Schools
Learning Outcome Matrix



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