

Skills rubric sustainable learning - USE & VALUE RENEWABLE RESOURCES AND SERVICES



kill	Entry educator	Entry youngster	Basic educator	Basic youngster	Advanced educator	Advanced youngster	Assessment educator	Assessment Youngster	Validation
se & value newable sources and ervices	What does the educator do before starting.	What does the youngster do before starting.	What does the educator to coach towards (self) awareness and self esteem.	What does the youngster do to grow towards (self)awarenesss and self esteem. A youngster at a basic level should have practiced but still need coaching to perform independently.	What does the educator do to coach towards master the skill.	, ,	What does the educator do to assess the skill?	What does the youngster do to get the skill assesed. A youngster at this level can perform independently and reflect on their abilities.	
			The educator looks, after the activity at which knowledges and abilities about the topic he has seen in the youngster. What can a youngster already do? He discusses this as concretely as possible with the youngster. This does not mean that a youngster should already be able to do everything, but that the educator focuses on which skills he has already seen.	deal with this skill (direct applications)? Are you able to apply knowledges and skills in simple and familiar situations with guidance from someone else and specific instructions?	goes with each ability of the skill. He can discuss with a youngster what	learn. If necessary, discuss with your educator how you can work on an ability. Collect evidence of your acquired ability. This can be done in different ways.	Using the pre-established criteria per objective, see what evidence you want to see to determine whether a young person has mastered the skill. This involves: - Does a young person understand what it is about? - Has he applied the skill in different situations? - Can the young person reflect on his learning process and how he applies this skill?	Provide evidence of your proficiency. You may choose how you demonstrate that you are able to: - understand what produce no waste is about and what abilities you need to master apply the abilities of producing no waste in different situations reflect on your learning process and how you did this.	The abilities belonging to producing waste are described in BadgeCraft. The educator and the youngster have had instruction on how to use BadgeCraft. When a Youngster thinks he mastered the ability, he goes to Badgecraft and provides proof of his acquired skill. The educator checks whether this is enough to award the badge or gives additional instruction
ssess resource	renewable resources, their presence and availability; Decide how these abilities can be of use for the youngster and how you can integrate these abilities in a learning activity.	workplace? Am I in the habit to use renewable resources? What I want to learn about this topic? Do I understand the concept of renewable services (public	to identify renewable resources and services in his/her territory? Has he/she the habit of preferring renewable resources and services in his/her daily choices? Is he/she capable of identifying potential developments in the use of renewable resources in his/her daily life and in his/her living and working context? If so, reflect on	the activity, have you been able to analyze	he/she can practice with the ability to assess and evaluate the availability of renewable resources and services in his/her own environment. In what kind of situations can he/she practice this and how can others see that he uses these abilities?	availability of renewable resources in your own environment, in different context and situations, including complex and unfamiliar ones. Are you able to recognize different renewable sources and to use tools to evaluate their availability? Are you able to solve problems and make informed decisions on this topic? Are you able to adapt knowledge to new contexts and generate new ideas? What have you already mastered and what do you need to practice? Discuss with your educator how you can practice the ability. In what kind of situations can you practice this	Did the youngster show the ability to assess and evaluate the availability of renewable resources in a correct way? Did he /she show the ability to monitor his/her use of renewable resources, identifying potential developments using tools and methods for data anlysis? Does he/she know what the ability is about? Is he/she able to apply the ability in different situations? Is the youngster able to reflect on his/her own actions?	development and ability to assess and evaluate the availability of renewable resources in your context, identifying potential developments using tools and methods for data anlysis. Show that you understand what it entails. Collect evidence that you have applied these skills in different situations and	The youngster can upload his collect evidence in BadgeCraft and the educator can judge on this basis (ar what he has seen in practice) wheth the youngster has achieved the ability or whether he needs to do somethin additional. If the ability is achieved, the educator can award the Open Badge.

	Collect information on:	Do I pay attention to use	Did you find that the youngster	Do you know more about applying renewable	Discuss with the youngster on how	Have a look at your ability to apply renewable solutions in	Did the youngster show the ability to Collect evidence of your	The youngster can upload his collected
	1. Main renewable resources and services	renewable solutions at home	has a basic knowledge of	resources and services? During the activity,	he/she can practice with the ability to	your own environment, in different context and situations,	apply renewable solutions in a development and ability in	evidence in BadgeCraft and the
	• · · · · · · · · · · · · · · · · · · ·	or at workplace? Am I in the		have you been able to analyze your habits of	apply renewable solutions in everyday		correct way? Does he/she apllying renewable solutions in	educator can judge on this basis (and
	of different renewable sources 3.The environmental impact of one's actions.	habit to use renewable resources?	resources and services? Has he/she the habit of applying	use of renewable solutions in daily life and identify ways to develop them? Do you know	life. In what kind of situations can he/she	recognize different renewable sources and to apply them? Are you able to solve problems and make informed decisions	show the ability to apply renewable your context. Show that you solutions, using tools and methods understand what it entails. That	what he has seen in practice) whether the youngster has achieved the ability
	Decide how these abilities can be of use		renewable resources and	more about the characteristics of different	practice this and how can others see	,	for data analysis? understand what it entails. The you have applied these skills in	, ,
			services in his/her daily choices?		that he uses these abilities?	contexts and generate new ideas?	Does he/she know what the ability is different situations and	additional. If the ability is achieved, the
	integrate these abilities in a learning	the concept of renewable	Is he/she capable of identifying	availability in your context? Do you know more		What have you already mastered and what do you need to	about?. Is he/she able to apply the autonomously.	educator can award the Open Badge.
	activity	services (public	potential developments in the use	1 1 2		l' ,	ability in different situations? Is the	
		transportation; sustainable agricolture)?		REQUIREMENTS -Ability to know how to use devices powered by renewable		l'	youngster able to reflect on his/her own actions?	
		agricolture):	,	energy consciously (e.g., portable solar		abilities? REQUIREMENTS:	own actions:	
			this with the youngster and be as	chargers).		- Ability to conceive, plan, and carry out practical		
			concrete as possible	-Ability to follow basic instructions for		projects such as installing small domestic solar		
Applying				using simple systems (e.g., home composting).		systems (with supervision), creating efficient composting systems, or organizing initiatives to		
renewable				- Ability to adopt daily behaviors that		promote the use of public transport or shared mobility.		
solutions				reduce energy consumption (e.g., turning		Ability to identify and solve complex problems related		
				off lights, using efficient appliances).		to the application of renewable solutions.		
				- Knowledge and use of public transport or sustainable alternatives (bicycle,		-Stay updated on new technologies and innovations in the renewable energy sector.		
				carpooling).		-ability to propose innovative solutions for the adoption		
				- Having a rough idea of the initial costs		of renewable solutions in different contexts		
				and potential long-term savings of some		Understand the challenges and opportunities of		
				domestic renewable solutions.		integrating renewable sources into the global energy		
						system.		
	Collect information on: 1. Basic	In my daily life, do I pay	Did you find that the student has	Do you know anything more about the	Discuss with the youngster on how	Have a look at your ability to conserve resources and	Did the youngster show the ability to Collect evidence of your	The youngster can upload his collected
	Environmental Science. 2. Causes and	attention to limiting my	a basic knowledge about causes	importance of reducing consumption and	can/could he/she practice with the	minimize waste in your life. Are you able to identify ways and	conserve resources and minimize development and ability in	evidence in BadgeCraft and the
	Consequences of Overconsumption and		and consequences of	·	_	tools to reduce waste and preserve resources? Are you able		educator can judge on this basis (and
	Waste. 3. Ecological Footprint. 4. Circular Economy. 5. Knowledge of Conservation	waste? Do I pay attention to conserving natural	overconsumption and waste? Has he/she the habit to apply	you aware that adopting small actions contributes to a greater good (environmental	1	·	Does he/she show the ability to conserve resources and minimize understand what it entails. That	• • • • • • • • • • • • • • • • • • • •
	Practices (Reducing Consumption;	resources (energy; water;	conservation practices in his/her	• • • • • • • • • • • • • • • • • • • •	practice this and how can others see	generate new ideas?	waste in his/her local context? you have applied these skills	or whether he needs to do something
	Minimazing Waste; Conservation of	food)? What I want to	daily choices? Is he/she capable	How could you reduce waste and conserve	that he uses these abilities?		Does he/she know what the ability is autonomously.	additional. If the ability is achieved, the
	,	· · · · · · · · · · · · · · · · · · ·	of identifying potential	resources in your daily life and at your		practice. Discuss with your educator on how you can practice		educator can award the Open Badge.
	local context. Decide how these abilities can be of use for the youngster and how		developments in minimizing	workplace? REQUIREMENTS - ability to apply simple		the ability. In what kind of situations can you practice this and how can others see that you use these abilities?	ability in different situations? Is the youngster able to reflect on his/her	
	you can integrate these abilities in a	overconsumption and		conservation practices (Energy saving;		REQUIREMENTS	own actions?	
	learning activity.	waste?	-	water saving; waste management;		- ability to analyze and optimize consumption through		
			, ,	reducing consumption; reusing objects);	-	footprint assessment - ability to targeted reduction strategies;		
			and be as concrete as possible.	knowledge of how one's daily actions		-ability to apply consumption monitoring tools and		
				(energy and water consumption, waste production) affect the environment; -		techniques; ability to apply advanced waste management strategies.		
Poducing waste				ability to follow local instructions for		Strategies.		
Reducing waste				conservation practices.				
and preserving								
resources								
		What is my level of		Do you have sufficient knowledge of the	Discuss with the youngster on how	Have a look at your ability to educate other people on	Did the youngster show the ability to Collect evidence of your	The youngster can upload his collected
	Knowledge on renewable resources; 2. effective communication skills; 3.	understanding of the scientific basic and	usefulness and effectiveness of using renewable resources?	potential of renewable resources and at the same time of the problems connected to	can/could he/she practice with the ability to educate other people on	renewable resources in your life. Are you able to engage others on the usefulness of renewable resources to live more	involve and educate other people on the advantages and methods of educate other people on	evidence in BadgeCraft and the educator can judge on this basis (and
	Elements on the socio-economic and		Does he/she know limits and	•			1 ' '	at what he has seen in practice) whether
	political context.	renewable resources? How	problems related to the use of	and convince other people?	In what kind of situations can he/ she	context to provide valid arguments to convince others on the	services, raising awareness and you understand what it entails.	the youngster has achieved the ability
		up-to-date am I on the latest		Which skills do you think you possess and	· ·		promoting sustainable behaviors That you have applied these	or whether he needs to do something
		innovations in the renewable sources sector? Do I feel	he/she an active and engaging attitude towards the topic? Is	which ones would you like to develop further? What technical aspects, costs and timing	rnat ne uses these abilities?	li.	clearly and concisely? Is he/she skills autonomously. able to organize initiative and	additional. If the ability is achieved, the educator can award the Open Badge.
		comfortable speaking in	he/she able to express his/her	should you take into consideration?			collaborate with others to organize	caucator can awaru trie Open bauge.
		public? Am I passionate	ideas clearly and convincingly,	REQUIREMENTS Ability to communicate		What have you already mastered and what do you need to	events and/or initiative with the goal	
		about promoting renewable	involving other people? If so,	basic concepts - Ability to explain the		practice? Discuss with your educator on how you can	of promotin the use of renewable	
			, ,			practice the ability. In what kind of situations can you	respources?	
A characteristic		sustainability? Am I able to express my opinions clearly	and be as concrete as possible.	concept of resource assessment in a simple way.		·	Does he/she know what the ability is about. Is he/she able to apply the	
Advocacy and		and convincingly? Can I		Recognize the importance of			ability in different situations? Is the	
Education on		work in a team and		sustainability: understand the role of		using renewable resources and services, raising	youngster able to reflect on his own	
renewable		collaborate with others to		renewable resources in the transition		awareness and promoting sustainable behaviors clearly	actions?	
resources		achieve common goals?		towards a more sustainable energy		and concisely in the community and to different		
		What I want to learn about this topic?		system.		stakeholders (e.g., policymakers, investors, local communities) using technical reports, presentations,		
		Tano topio i				and effective data visualizations;		
						- Ability to plan and carry out initiatives to promote		
						resource conservation (e.g., awareness campaigns at		
						school, local clean-up events)Ability to collaborate with other individuals, groups, or		
						organizations to promote sustainability on a broader		
						level.		

	Collect information on: 1. Understanding	Do I recognize the value of	Is the young person able to	Do you know anything more about the value of	Discuss with the young person how	Have a look at your ability to appreciate the value of	Does the youngster show the ability	Collect evidence of your	The youngster can upload his collected
	•	renewable resources from	recognize and appreciate the	renewables ? Are you aware of the importance		renewables in everyday life. Are you able to recognize the	1		evidence in BadgeCraft and the
	<u> </u>	an environmental, ethical	value of renewables? Does the	of renwable resources from an environmental,		general benefits of renewables sources in your context? Do	sources? Is he/she able to		educator can judge on this basis (and
	ŭ ŭ	· · · · · · · · · · · · · · · · · · ·	young person demonstrate an	economical and ethical point of view? In your		you know methods and tools to enhance renewable			what he has seen in practice) whether
	conservation of natural resources; human	•	understanding of the value of	daily life do you appreciate the value of		resources in your living and working context? Are you able to		_	the youngster has achieved the ability
	· ·	evaluation?What I want to	renewables from an			identify solutions to improve the use of renewables sources			or whether he needs to do something
	, , , , , , , , , , , , , , , , , , , ,	learn about this topic?	environmental, ethical and	way?	that he uses these abilities?	as much as possible? Are you able to make informed	methods and tools to analyze		additional. If the ability is achieved, the
	water cycle; biodiversity; air and water	learn about this topic:	economic point of view? Does	REQUIREMENTS	triat rie uses triese abilities :	decisions on this topic? Are you able to make informed	1		educator can award the Open Badge.
	quality) 4. economic and social value (job		the young person apply this	Basic identification and description of		knowledge to new contexts and generate new ideas?	renewable sources? Is he/she able	autorioriousiy.	leducator carraward the Open Badge.
	creation; energy independence;		awareness in his/her daily life? If	renewables. Awareness and knowledge of the		What have you already mastered and what do you need to	to identify solutions to improve the		
	technological innovation; energy access) 5.		so, reflect on this with the	environmental (reduction of emissions,		practice? Discuss with your educator on how you can	use of renewable sources? Is		
	Ethical and social justice aspects		youngster and be as concrete as	`		practice the ability. In what kind of situations can you	he/she able to make informed		
	(intergenerational equity; climate justice).		possible.	economic (savings on energy costs, reduced		practice this and how can others see that you use these	decisions on this topic? Is he/she		
Appreciating the	(intergenerational equity, climate justice).		possible.	dependence on fossil fuels) advantages		abilities? REQUIREMENTS	able to adapt knowledge to new		
				resulting from the use of renewable resources		- In-depth knowledge of technologies and systems -	contexts and generate new ideas?		
Value of				and services. Knowledge of practical			Do they show these abilities in an		
Renewables.						Critical analysis of advantages and disadvantages of renewable sources - Awareness of Innovations and future	effective and autonomous way?		
				examples (Identify common applications; understand the importance at a			Do they know what the ability is		
				community/national level).		trends.	about? Is he/she able to apply the		
				community/national lever).			ability in different situations? Is the		
							youngster able to reflect on his/her		
							lown actions?		
							own actions?		
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