

STEAM Recipe

Theme	Music throughout the years
Target Age Group	10-11 years old
Duration of Activity	120 minutes
Resources/Materials Needed (exact details required)	<p>Clothes that may be dirty</p> <p>1st hour:</p> <p>A computer corner</p> <ul style="list-style-type: none"> - Computers - Instruction paper - Student bundle <p>A song corner</p> <ul style="list-style-type: none"> - The students instrument <p>An instrument corner</p> <ul style="list-style-type: none"> - Plastic Bottles - Toilet rolls - Balloons - Egg cartons - Paper / duct tape - Butter package - Rice grains - Plastic cups - Sand - Maize - Hot glue? - Rope - Driftwood - Cardboard - Other materials that can be recycled <p>2nd hour:</p> <p>A soundwave corner</p> <ul style="list-style-type: none"> - Djembe <p>A decorating corner</p> <ul style="list-style-type: none"> - Glitter

	<ul style="list-style-type: none"> - Confetti - Colored paper - Crêpe paper - Feathers if possible <p>A pollution corner</p> <ul style="list-style-type: none"> - Student bundle - Pen - calculator
STEAM Components	<ul style="list-style-type: none"> - Science = how sound waves work; - Technology = what is the best way to make an instrument; - Engineering = how to construct an instrument; - Arts = decorating / designing their instrument; - Mathematics = calculating the amount of waste there is in the ocean.

WHY	Goals/Objectives/Targets/Aims	<p>Waste is more than just garbage. It has a lot more possibilities. We try to teach students to see that.</p> <ul style="list-style-type: none"> - A student acknowledges that the ocean is polluted - A student calculates how much waste there is in the ocean - A student makes an instrument from scratch using only recycled materials - A student explains how sound waves work - A student makes an instrument which makes sound - A student decorates their instrument in their own way - A student improvises a song with their own homemade instrument
HOW	Method/Activities (i.e step by step instructions for teacher)	<p>We are going to work in corners:</p> <p>1st hour:</p> <ul style="list-style-type: none"> - A computer corner - A instrument corner - A soundwave corner <p>2nd hour:</p> <ul style="list-style-type: none"> - A decorating corner - A pollution corner - A song corner

		<p>Every corner is lasting for 15 min. We then have 10 min left as a buffer for switching and explaining things if needed. All corners have an instruction paper which tells the students what to do.</p> <p>1st hour</p> <p>1.Computer corner Explanation: The students have to research on a computer what pollution is doing to our environment. They have to research how many tons of garbage there are in the ocean. They also have to research at what rate the pollution is being decreased.</p> <p>2.Instrument corner Explanation: The students have to make their own instrument from scratch. There will be a table with the available materials where the students can make their own instrument. They can use any kind of bonding material they wish to use, but they have to be responsible with the amounts they use. There is one main criterium: the instrument has to make a sound.</p> <p>3.Soundwave corner Explanation: This corner is made up in 2 parts: 1.The first part is teaching the students that sound waves are just waves of air moving. We are going to demonstrate this by using a djembe. The students have to put their hands behind the djembe and feel the movement of the air. 2.The second part of this corner is that the students stand in a line and the teacher pushes the first student in that line and the students will then find that sound waves their loudness is affected by the distance it needs to travel.</p> <p>2nd hour</p> <p>4.Decorating corner Explanation: The students can decorate their instrument in any way they like. There is a table where the materials will be provided.</p>
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STRATEGIC PARTNERSHIP

AGENTS OF CHANGE IN EDUCATION

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<i>DID IT WORK</i>	Reflection/Evaluation (where applicable)	<p>For every corner there could be an evaluation:</p> <ul style="list-style-type: none"> - Computer corner - There is only one right answer to how pollution there is. - Instrument corner - If the instrument makes a noise it passes. - Soundwave corner - If they can decipher that sound is just moving particles they pass. <p>2nd hour:</p> <ul style="list-style-type: none"> - Decorating corner - No specific right answer - Pollution corner - If they find the answer to the question they pass - Song corner - If they can make a rhythmic song they pass.