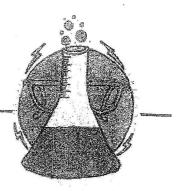
Full STEAM ahead for better education Lesson plan



STEM in Münster: Teaching STEM with music and arts

## Title: Natural colors

Aim	Producing colors from food (natural colors), painting and experimenting with them	
Tools I need	Red cabbage, beetroot, turmeric, black tea, spinach, water, hibiscus tea, mallow flowers, salt, soda, vinegar Blender, kettle, extension cords, sieves, bowls, jugs, glasses, rags Paper, brushes, crayons, pencils, pads	
Preparations	Buy groceries or have them brought by the children Tools and materials in boxes for group work Instructions for the production of natural colors Recorded experiments for the pupils Divide students into groups	
What to do	The children read the color recipes. They prepare the colors with the help of the instructions. The pupils paint with the colors on paper. They experiment by sprinkling salt, baking soda, vinegar, hibiscus and mallow flowers on the paint. They observe how the color changes. They share their observations with each other.	
What I get / results	A collection of pictures with natural colors Experience in dealing with natural materials for color production	

## The STEAM approach:

S	Search	The pupils choose different colors and ingredients for their pictures.
Т	Think	The children think about different possibilities of color production.
E	Experience	The pupils make the colors by themselves.
A	Active learning	The children create their own colors and pictures.
M	Motivation	The students are manufacturers of their personal colors. The sheets of paper were later tied together in a color book.

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Ressources / Links:	Book: Arendt	
	Entdecke die Farben der Natur	
	Das Werkstattbuch für Kinder	
	Haupt Verlag ISBN 978-3-258-60043-7	