SERVING UP SUCCESS TO CALGARY'S NEURODIVERSE LEARNERS Individualized Education Program (IEP) Plan

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Assorted

Sati *****, Grade 9, Winter Term 2024

Date Created		01/01/2024	Date Last Updated	Jan 1, 2024
Teacher	• F	Prepared by: Mischa Simpso	on Kovalchuk	
Student	● S ● * ● J	Sati ******* lan 2024		
Guardian	● * ● F ● *	********** [:] ather ** *** ****		
Strengths	¢	Deeply interested in fashior projects.	n design, enjoys researc	h and creative
Challenges	• [c	Difficulty connecting perso lisengage from traditional s	nal interests to academ science lessons.	ic subjects, tends to
Lens	Special Interest - Fashion			
Subject	Grade 9 Science			
Utilize Sati's interest in fashion design to explore and understand key concepts from the Grade 9 Science curriculum, specifically focusing on Environmental Chemistry and Electricity.				

Student Goals

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By Week 4, identify and analyze 5 environmentally sustainable materials used in fashion, achieving 90% accuracy in describing their properties.	By Week 8, design a garment that incorporates principles of static electricity (e.g., avoiding static cling), with at least 3 scientific principles applied.	By Week 12, evaluate the environmental impact of the fashion industry, citing at least 3 key issues and proposing 2 evidence-based solutions.	By Week 16, present a multimedia project showcasing her design and research, with accurate application of at least 5 scientific concepts			
Strategies						
Interest-Based Engagement: Frame lessons around fashion- related questions, such	Creative Integration: Assign hands-on projects, like designing an eco-friendly outfit,	Research and Application: Provide access to resources about sustainable fashion and	Technology and Presentation: Teach Sofia how to create multimedia presentations using tools			

Success Criteria

- Research and escribe the properties of 5 sustainable materials with 90% accuracy by Week 4.
- Create a functional garment design that demonstrates at least 3 scientific principles related to static electricity by Week 8.
- Analyze the environmental impact of the fashion industry, citing 3 key issues and proposing 2 solutions with evidence-based reasoning by Week 12.
- Deliver a multimedia presentation integrating research, visuals, and science concepts with at least 80% rubric compliance by Week 16.

Term Plan: Highlights				
We	eeks 1-4 (Sustainable Materials and Properties of Matter)			
WEEK 1	Explore sustainable fabrics by testing absorbency and strength to identify their best uses.			
WEEK 2	Experiment with natural dyes to observe chemical changes and their effects on fabrics.			
WEEK 3	Research the environmental impact of textile production and create a comparison chart for synthetic and natural fabrics.			
WEEK 4	Research a sustainable fabric and create a fashion sketch incorporating it for a mini-presentation.			
Weeks 5-8 (Electricity and Static in Fashion)				
WEEK 5	Test fabrics for static electricity buildup using balloons and rank them by their conductivity.			
WEEK 6	Design a garment that reduces static electricity, explaining scientific principles applied.			
WEEK 7	Build a simple circuit using conductive thread to explore wearable technology in fashion.			
WEEK 8	Create an infographic on how science solves practical fashion challenges, highlighting static electricity and circuits.			
Weeks 9-12 (Budgeting and Data Analysis)				
WEEK 9	Conduct a simulated water filtration experiment to analyze how dyes affect water systems.			
WEEK 10	Test decomposition rates of synthetic and biodegradable fabrics, predicting which breaks down faster.			
WEEK 11	Create an upcycled accessory using scrap materials, explaining the environmental benefits of upcycling.			
WEEK 12	Develop a poster summarizing the environmental pros and cons of a chosen material.			

	Weeks 13-16 (Showcase and Integration of Learning)
WEEK 13	Review completed mini-projects and draft a multimedia presentation summarizing key takeaways.
WEEK 14	Sketch a sustainable clothing collection, labeling designs with applied scientific concepts.
WEEK 15	Practice presenting the multimedia project to peers or family and revise based on feedback.
WEEK 16	Deliver the final presentation, reflecting on how fashion connects to science.