



Vetted Project: Plastics long life span and the fact that instead of breaking down, it breaks up (into smaller pieces) makes plastic waste a threat to our planet. Through our PBL Unit students will have the opportunity to learn about the effects of plastics in our ocean, its effect on marine animals, birds, humans, and our environments. This will be a public awareness campaign to bring attention to climate change and its effects globally and locally. My students will be given the following options: A. Start a Responsible School Challenge--Trying to change student and teacher habits in order to reduce our plastic use B. Community Challenge--Propose at least one change to local or state entity to benefit the environment: establish a one day e-waste recycling effort for those hard to recycle products; do a beach or shoreline clean-up; help local restaurant start composting program; check teachers' tire pressure C. Art as Action--For my students who are more artistically inclined they can create a sculpture out of plastic bottles they collected from the beach or shore; write a song or make a video D. Follow the data--Collect data on the food system, medical treatments, health of phytoplankton that are affected by the death of coral. Use GIS to show the direct connect of warming oceans to death of coral and other marine animals. Collect data on results of group A, and B and chart the change that these groups are really making. E. Set up and maintain a marine fish tank. Sustainability: Once our eyes are opened to the dangers of plastics in our oceans this information will have a lasting impact on how we use plastics in our daily lives. Driving Question: What is the impact of creating/using single use items, such as plastics bags, that have a longer life span than we have? Teacher Reflection: I launched this project at the Virginia Aquarium with a visit that included a behind the scenes tour. During that tour my students were shown a turtle esophagus and they learned how plastic bags can be stuck in their throats. This one thing was the driving force that got my students going. It gave them a reason why. Lessons Learned: I would make the groups that my students worked in smaller. Teacher Rating: 4 out of 5 (Likely to Recommend)

I. Authenticity

Producing/Revising: We provided a service of producing cleaner beaches.

Performing

Realistic Role

Demonstrating

Event

Exhibit / Contest

Producing / Revising

Storyboard

Presenting

Utilize Visuals

II. Media Produced

Internet Media: We used twitter to get the word out.

Internet Media

Social Media Page

Digital Content

Digital Arts / Graphics

Physical Drawings & Fine Arts

Illustration

III. Challenging Problems

Questions

Build a Better World

Themes

Community Outreach

Environmental

Volunteering

Topics: Physical World

Animals, Pets & Wildlife

Climate, Nature & Natural Resources

Exploring Earth & Space

Topics: Humans in the World

Habitation & Population

IV. Achieved Literacy Skills

Information / Technology

Utilize Spreadsheets / Graphs / Tables

Project / Work

Manage Time / Workload

I. Parameters & Feasibility

Project Timeframe: Fish tank requires 6-8 weeks.

Project Timeframe

5-6 Weeks

7-8 Weeks

Assessment Timeframe

Within a Class Period

of Project Members

Flexible Group

Grade Level

Middle School (Grades 6-8)

High School (Grades 9-12)

Authentic Audience / Evaluators

Peers

Parents

Teachers & Administrators
Community Members
Consumers / Clients
Government Officials

Special Test Accommodations
Presentation of Materials / Directions

II. Intended Learning Outcomes

Creativity
Brainstorm
Change

Communication
Challenge Status Quo
Instruct

Collaboration
Assume Shared Responsibility
Encourage Others
Value Contributions Made by Others
Work with Diverse Teams

Critical Thinking
Overcome Obstacles
Persuade

Instilled Citizenship Values
Civic Activities / Organizations
Community & Public Issues
Community Service
Lifestyle Respecting Environmental Resources
Personal Responsibility
Societal Influence & Political World
Strong Personal / Work Ethic

III. Success Skills & Depth of Knowledge

Cognitive Demand
Comprehending / Understanding
Applying
Evaluating
Creating

Social & Emotional Skills
Self-awareness
Self-management
Group-awareness
Group-management

Learning Styles / Intelligences
Bodily / Kinesthetic
Interpersonal / Social
Naturalist
Visual / Spatial

Assessment Structures / Resources
Graphic Organizers
Interviews / Conferences
Journals

IV. CTEs & Disciplines

Career & Technical
Arts & Entertainment
Consumer Sales, Services & Products
Non-profits & Associations

Arts
Art Studies

Communication / Media
Speech Communication & Translation

Engineering
Biosystems Engineering

Sciences
Biosciences
Earth & Geo Sciences
Maritime / Marine Sciences

Social Sciences
Human Geography



The Navi Compass is a registered trademark of SagePoint Solutions Group LLC.

Disclaimer: For personal use, or under terms of a professional license, with your understanding that we are not engaged in rendering legal, accounting, financial, investment or other professional advice or services. If expert assistance is required, seek services of a professional. For more information, see our Terms of Use and Privacy Policy.

Copyright © 2010-2016 SagePoint Solutions Group LLC. All rights reserved.