

# Compass Education Level 2: Educator

## Applying Systems Thinking for Sustainable School Transformation

### JESSICA BELODED'S ACTION PLAN

#### **THE SUSTAINABLE DEVELOPMENT GOAL:**

- Goal #12: Responsible consumption and production

#### **GOAL WITHIN MY CLASSROOM:**

IDEA	People Required	COMPASS TOOLS I CAN USE
Food Waste Reduction Project & Composting System At UWC Thailand  Hope: To create a self sustaining system within a year	<ul style="list-style-type: none"> <li>- Grade 4's, 6's 10's &amp; K</li> <li>- Sustainability Committee</li> <li>- Food Committee</li> <li>- Chefs</li> <li>- All UWCT staff, students, parents, admin</li> </ul>	<ul style="list-style-type: none"> <li>- The Compass</li> <li>- The Iceberg</li> <li>- The VISIS Pyramid</li> <li>- N-O&gt;CC Justifications</li> </ul>

#### **TIME FRAME:**

DATE	ACTION TAKEN	COMPASS TOOLS USED
January 2017	<ul style="list-style-type: none"> <li>- What does the word sustainability mean to us in Grade 4?</li> <li>- Overnight field trip with a case study on Replanting Mangroves in surrounding local area to reinforce understanding of sustainability and how small actions can create big change within our world</li> </ul>	n/a
February 2017	<ul style="list-style-type: none"> <li>- Grade 4 to begin collaborating with Kindergarten teacher and his class on 'the food problem'</li> <li>- Clearly defining what the problem is: too much waste</li> <li>- Finding out who else in the school is focussing/passionate about this topic - speaking with CAS coordinator, food committee, sustainability committee</li> <li>- Sharing our findings from The Compass Inquiry with them/Asking them what they think or have found</li> <li>- Clearly set intentions for each group - Plan of Action for: Kindergarten, Grade 4, Grade 6 &amp; Grade 10 who are all passionate about various aspects of this school wide project</li> <li>- Set aside 1 period a week to focus on this Action/Service Project</li> </ul>	<ul style="list-style-type: none"> <li>- The Compass</li> </ul>
March 2017	<ul style="list-style-type: none"> <li>- Get parent volunteers to sign up to assist small groups of Grade 4's</li> <li>- Set weekly intentions for small groups to focus on within their 1 hour Friday sessions - students help to plan this and 'look ahead' to what is coming next</li> <li>- Grade 4 decides to focus on creating a better food separation system and composting system at the school</li> </ul>	<ul style="list-style-type: none"> <li>- The Iceberg</li> <li>- The VISIS Pyramid</li> </ul>



	<ul style="list-style-type: none"> <li>- Figure out the WHY behind all the waste - what are people's mental models?</li> <li>- Brainstorm what we can do about it</li> </ul>	
March 2017	<ul style="list-style-type: none"> <li>- Initiate first Innovation <ul style="list-style-type: none"> <li>- Separate bins in our cafeteria</li> <li>- Set up classroom visits done by small groups of students to explain the WHY behind our project in 'kid language'</li> <li>- Design new system in the cafeteria and present it to leadership</li> <li>- Design posters to explain the new procedure in the cafeteria</li> <li>- Contact local dog shelters to see if they want our excess foods</li> <li>- Approach leadership about starting a composting system in the school</li> <li>- Create a system for Grade 4 to help monitor bins during lunch times to guide people in how to use the new system</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>- uses N-O&gt;CC concepts (but in kid language) to get community buy in</li> </ul>
April/May 2017	<ul style="list-style-type: none"> <li>- Speak with PYP coordinator about planning a unit and summative assessment task around building a composting structure &amp; system within the school</li> <li>- Review how our new food separation system is or isn't working</li> <li>- Collect evidence of this - pictorial, interviews, video</li> <li>- Consider communication of system to Administration team and Thai Cleaning &amp; Maintenance staff - translate information into Thai and present. Educate them so they understand what SDG we are focussing on and why it is important.</li> <li>- Share 'Our Story' to the parent community in an assembly and in the community Ebrief, school website and social media accounts</li> <li>- Get feedback from school about what is, and isn't working - what mental models are working with or against our system <ul style="list-style-type: none"> <li>- Check in with other groups in the school on how their aspects of the project are going</li> </ul> </li> <li>- Ask ourselves if new innovations need to be put in place to support our project</li> </ul>	<ul style="list-style-type: none"> <li>- The VISIS Pyramid</li> <li>- Behavior Over Time Graphs</li> </ul>
May 2017	<ul style="list-style-type: none"> <li>- Build composting structure with students</li> <li>- Redirect Thai Cleaners to be putting food in the composting bucket into our new composting system - what are their thoughts on this new system?</li> <li>- Approach kitchen staff and hang the compost materials sign we've created and place bucket in their kitchen space <ul style="list-style-type: none"> <li>- Come to some kind of agreement where they place those food scraps into our composting system too - what are their thoughts on this new system?</li> <li>- Coordinate with gardening club to begin using our compost materials</li> </ul> </li> <li>- Create a system with Kindergarten's to have students checking and rotating compost every two days.</li> <li>- Approach boarding house students to see if they will support us in doing it over the weekends.</li> </ul>	<ul style="list-style-type: none"> <li>- The VISIS Pyramid</li> <li>- Ladder of Inference</li> </ul>
June/July/August 2017	<ul style="list-style-type: none"> <li>- Get feedback from school about what is, and isn't working - what mental models are working with or against our system <ul style="list-style-type: none"> <li>- Check in with other groups in the school on how their aspects of the project are going</li> </ul> </li> <li>- Ask ourselves if new innovations need to be put in place to support our project</li> <li>- Set intentions and plans for next academic year's Grade 4 students - a sort of To Do list</li> </ul>	<ul style="list-style-type: none"> <li>- The VISIS Pyramid</li> <li>- Behavior Over Time Graphs</li> </ul>



	<ul style="list-style-type: none"> <li>- Speak with gardeners/kitchen staff/ boarding house students about maintaining system over the summer holidays</li> </ul>	
September 2017	<ul style="list-style-type: none"> <li>- Tune in new students to the project - have old grade 4's come and mentor the new grade 4's</li> <li>- Set up a 1 month calendar where new grade 4's become cafeteria monitors to help remind students at school what we do in the cafeteria</li> <li>- Present in assembly</li> <li>- Use a variety of ways to demonstrate what was done last year and the progress our school made. Get people excited and on board again.</li> </ul>	<ul style="list-style-type: none"> <li>- N-O&gt;CC Justifications</li> <li>- Behavior Over Time Graphs (show examples from last year's progress)</li> </ul>
October 2017	<ul style="list-style-type: none"> <li>- Begin inquiry into WHY there is so much waste</li> </ul>	<ul style="list-style-type: none"> <li>- The Compass</li> <li>- Behavior Over Time Graphs</li> </ul>
November 2017	<ul style="list-style-type: none"> <li>- Begin project #2 - reducing how much waste we have at our school, by addressing: <ul style="list-style-type: none"> <li>- what is served</li> <li>- how much is served</li> <li>- better recycling of unused food to make meals the next day</li> </ul> </li> </ul>	Use tools to do whole cycle again...

