SERVICE LEARNING IN THE CLASSROOM: USING COMPASS EDUCATION SYSTEMS THINKING TOOLS



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LEARNING PLAN OVERVIEW

Subject(s)	Service LearningGlobal Citizenship EducationSustainable Development Project
Grade Level (s)	 Lower Primary (ages 6-7) Upper Primary (ages 8-11) Middle School (ages 12- 13)
Systems Tool(s)	 Sustainability Compass Systems Iceberg Behavior Over Time Graphs Systems Mapping or Causal Loop Diagrams
Purpose of Using Tool	 Critical Thinking Discussion Action Planning Reflection
Summary	For students to expand the range of choices available for solving a problem by broadening their thinking and helping them articulate problems in new and different ways.

Learning Objectives

- To learn about and apply systems thinking tools
- To foster perspective-taking, raise questions, and surface areas for further inquiry
- To make informed decisions and take action to make a difference

Material and Settings

- Writing equipment
- Copies of Sustainability Compass and Systems Iceberg (optional)



- Whiteboard and computer
- Classroom and/or outdoor setting

Learning Context

Service learning in a fourth-grade class involves integrating community service projects with classroom learning to enhance students' understanding of social responsibility and foster their personal growth. In this context, students actively participate in hands-on activities that benefit the community while also reinforcing academic concepts and skills.

Purpose of Using the Systems Thinking Tools

The Systems Iceberg and Sustainability Compass tools allow students to take a deeper look at the events, concerns, and issues that matter to them and notice in the community.

Also, these tools enable them to see the whole system, 'to get the whole story', and help them formulate more effective questions and responses to new situations.

Learning Plan Step-by-step Description

- 1. Ask students to either identify a new issue that is of concern to them in the community and is connected to the chosen SDGs or continue with the ones previously identified.
- 2. In previous 'collaborative' groups or new groups, have them describe the problem from all four levels of the iceberg: events, patterns, systems & structure, and mental models.
- 3. Each group assigns a scribe or takes turns completing the Systems Iceberg. You might want to ask students to be responsible for different roles: scribe, facilitator, presenter, and timekeeper.
- 4. Encourage students to have a brief discussion about their Systems Iceberg. The 'presenter' from each group can present the group's work to the whole group. Students can ask questions and share observations and comments.
- 5. Each group return to their Systems Iceberg Model and highlight leverage points within the systems & structure and mental models identified.
- 6. Students brainstorm an action they would like to take to make a positive change. They select different leverage points for the action.
- 7. For each leverage point, students justify their choice and explain how it might impact their action.
- 8. Instruct students to revise their action plan or plan for action using the Five Stages of Service Learning.

Introduce the Five Stages of Service Learning

- Students revisit and think critically about their Systems Iceberg Model and prepare and plan
 for action resulting from identified leverage points. Complete the Five Stages of Service
 Learning to make an impactful and sustainable change: complete their investigation,
 prepare, plan, take action, reflect, and demonstrate their learning by creating a loop diagram
 to tell their story.
- 2. Students reflect on how the Systems Iceberg Model helped to 'get the whole story', to see the whole system, and identify leverage points within the system.

REFLECTION

Plusses

Throughout each project duration, students had the opportunity to apply their knowledge of the Systems Thinking Tools in real-world settings and develop essential skills like critical thinking, problem-solving, collaboration, and communication. They conducted research, analyze data, and presented their findings to the broader community. The integrated approach of the tools ensured that academic learning is complemented by practical experiences that have a tangible impact on the environment and the local community.

Areas for Improvement

Time was a constraint.

Finding the perfect balance for students to go deeper in their thinking and actually completing their actions was tricky. There's definitely area for improvement, recognising when to move students along while reinforcing the importance of applying the Systems Thinking tools.



EVIDENCE







