The Perceptions Of Teachers On Using The Systems Thinking Approach In In-class Applications

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INFUSING SYSTEMS THINKING into K-12 EDUCATION
- Investigate the perceptions of the teachers using the Systems Thinking Approach in in-class applications.
Critical Incident Technique (CIT) & Interview Questions

- Think about the experiences you have had with your students regarding System Thinking. Are there any incidents, anecdotes, and stories about which you think that the system thinking practices were successful among these experiences?

- What were the factors that made these experiences successful and positive ones?

- Are there any concepts that are established in the students’ discourses and any habits observed that they start to catch about system thinking?

- Are there any incidents, anecdotes, and stories about which you think that the system thinking practices were unsuccessful among these experiences?

- What were the factors that made these experiences the ones that were unsuccessful, hard and compelling for you?
- 480 teachers trained in between 2014-2019
- 50 teachers, who are known to use systems thinking tools in their in-class applications, received the interview questions
- 31 teachers replied the interview forms
DATA ANALYSIS

- The content analysis method

- graph
- loop
- stock-flow
- mental processing skill
- ladder of inference
- other
- teacher competency
- using in daily life
- concretization
- extracurricular use
- cause effect relationship
- problem solving
- personal differences
- seeing the big picture
- planning
- empathy
- different perspectives
- enjoyment
- connections
- permanence of learning
- ease of application
- age appropriateness
- thinking that students cannot do
- drawback of language
- time distress
- time allocated for planning
- facilitation of learning
- teacher sharing
- desire to accomplish fast
- thinking that students cannot do
- drawback of language
- time distress
- time allocated for planning
- facilitation of learning
- teacher sharing
- desire to accomplish fast
RESULTS

Category

ST Tool

Student

Teacher

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<thead>
<tr>
<th>Category</th>
<th>Result</th>
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<tbody>
<tr>
<td>ST Tool</td>
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<td>70</td>
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<td>Student</td>
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<td>Teacher</td>
<td>17</td>
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- Online Platform
- Updating the content of the teacher workshops
- Consultancy for teachers
- Writing a textbook for the Faculties of Education
Thanks for listening..

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