Promote 21st Century Skills: Mathemathical Practices That Support the Learning and Innovation Cycle

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They further developed their ability to make sense of problems and persevere.
A New Diagram Strategy

Creative Thinking 

The students were given the task of solving a problem related to the 4Cs—Critical Thinking, Communication, Collaboration, and Creativity. The problem was to find a way to connect two concepts in mathematics. The students were encouraged to work in groups and discuss their ideas before presenting them to the class.

To facilitate this task, the teacher created a diagram that represented the problem. The diagram included symbols and equations that helped the students visualize the connections and develop a solution. The teacher also asked students to explain their reasoning and the strategies they used to arrive at their solution.

The students were then asked to self-assess and peer-assess their work. They were given prompts to assess their own and their peers' contributions. These prompts included:

- Critical Thinking: What new approaches did you use to solve this problem?
- Communication: How did you work together to find solutions?
- Collaboration: Did you share your thoughts, questions, and solutions?
- Creativity: Did you invent a strategy that was not assumed before?