

Global Innovation Camp

Lesson Guide for Week 2: Design-Thinking Session

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Week 2: Design-Thinking Approach

Session Duration: 40-50 minutes in the week of August 20-24, 2018

Session description: This session aims to introduce design-thinking approach that will guide students in the Innovation Camp. This approach will help students design solutions that are more specific to the future problem that they will be working on. This will also allow students to always start with “empathy” as they analyze problems and think of solutions.

Target goal:

- Identify the different stages in design-thinking
- Be familiar with the expectations in the different stages of design-thinking
- Undergo design-thinking through doing a sample SDG Challenge

Lesson Flow:

Parts of the Lesson	Learning Activity Instructions	Materials Needed
<p>Part I: Explore (5 minutes)</p>	<p>Learning activity:</p> <p>Give a short update on the Global Innovation Camp. Use the Global Innovation Camp Update Slideshow Presentation.</p> <p>Think-Pair-Share (Ask the students to think of their answer to the given questions. Pair up and share them to their partner.)</p> <p><i>Prompt for short discussion: How do you solve problems, such as Math problems, jigsaw puzzle, riddles, or even try to figure out how to make your favorite drink (or cook your favorite breakfast)?</i></p> <p>Let the students quickly come up with the different steps that they do in order to solve certain problems in their daily life.</p>	<p>Global Innovation Camp Update Slideshow Presentation</p>

	End with the idea that there are different ways of solving problems and they all aim to help us find solutions. <i>In the Innovation Camp, we will use a special approach called design-thinking.</i>	
Part II: Investigate (10 minutes)	<p>Learning Activity: Discussion of the different steps in the design-thinking process.</p> <p>Use the Design-thinking Slideshow Presentation to discuss the different steps in the design-thinking process. Note that you need to empathize the importance of empathy in design-thinking.</p> <p><i>Read more about design-thinking here:</i> https://www.interaction-design.org/literature/article/5-stages-in-the-design-thinking-process</p> <p><i>Watch the video from:</i> https://www.youtube.com/watch?v=r0VX-aU_T8</p>	Design-thinking Slideshow Presentation
Part III: Action (20-30 minutes)	<p>Learning Activity: Let the students undergo design-thinking through the backpack challenge in groups. Limit to 3-4 members for each group. This is a simple and quick activity.</p> <p>Instruction: Design the best possible backpack for an identified “client.” The profile of the client, context of the problem, and instructions are included in the slideshow presentation. Note that this touches SDG #1.</p> <p>Use the worksheets for the Camp to guide the students in doing the different steps in design-thinking. Have the identified/ recommended</p>	<p>Backpack challenge Slideshow Presentation</p> <p>Recycled materials (used) such</p> <ul style="list-style-type: none"> • paper or plastic bags, • plastic bottles of water

	<p>recycled materials ready for quick prototyping. You may also ask students to bring their own materials if your school does not have the materials needed/ recommended.</p>	<ul style="list-style-type: none"> • old newspaper • brown tissue rolls • pair of scissors • glue/ masking tape/ glue gun and glue sticks • writing materials • any used/ recycled materials you think they need for prototyping <p>Innovation Camp worksheets</p>
<p>Part IV: Reflect (5 minutes)</p>	<p>Learning Activity: Big Group Sharing:</p> <ul style="list-style-type: none"> • How helpful is design-thinking in creating solutions to some of our problems? How challenging is its use? • What important skills or even traits do you need to have to be able to create better solutions? Focus on collaborative skills such as being able to listen to the ideas of other people, asking more questions, being able to settle differences, etc. 	

To get the badge for this week, accomplish these tasks and send to francisbtuscano@gmail.com:

- ***Take pictures of students doing the backpack challenge***
- ***Take pictures of sample backpack prototype***