

Strand: 8.4	Standard: 8.4.2 & 8.4.3	Episode 6	Big Idea: Per capita consumption affects the availability of natural resources.
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Title: Analyzing Solutions	Time: 45 mins	CCCs: <u>Cause and effect</u>	Practices: Constructing explanations and designing solutions Engaging in argument from evidence
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Episode Snapshot

Students look at other students **design solutions** and reflect on whether the **solution** will meet the criteria and constraints of the problem.

Gather

Set students up in groups so that they have students who wrote solution proposals for 4 different natural resources in each group of 4. Have students **explain** to the group the problem with the usage of their natural resource. They will then present the **solution they have designed** to solve the problem. They must address the effect of their solution on the problem.

Reason

Each student needs to reflect individually on each of the presented **solution** proposals. They need to focus on the idea of is this going to drastically change people's lives or drastically change the access to the necessary resources.

Communicate

Students communicate back to the person who designed the **solution** the problems they see with the **solution**. They must use **evidence to support their argument** as to whether the solution will have the desired effect on the problem. The students can then have a discussion on whether the changes would be possible **solutions**.

Assessment: Students should be able to argue why a solution would or would not meet the criteria and constraints of the solution . The students should be able to pull in their understanding of what they have learned throughout this strand's episodes including how	Materials, resources, handouts, etc: Research from episode 5 Analysis of Solutions Worksheet
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