

Deserted Island Challenge

You suddenly wake up on a sinking boat. Choose which materials you will take with you to the island in the distance. You can only carry four items as you swim to shore.

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|---|--|---|
| <input type="checkbox"/> lantern | <input type="checkbox"/> water filter | <input type="checkbox"/> emergency flares |
| <input type="checkbox"/> rope | <input type="checkbox"/> first aid kit | <input type="checkbox"/> axe |
| <input type="checkbox"/> compass | <input type="checkbox"/> sunscreen | <input type="checkbox"/> flashlight |
| <input type="checkbox"/> tent | <input type="checkbox"/> pot | <input type="checkbox"/> box of matches |
| <input type="checkbox"/> insect repellent | <input type="checkbox"/> fishing rod | <input type="checkbox"/> tarp |

Read the problem on your *Deserted Island Challenge Card*. Identify and evaluate solutions to the problem using the strategies from the *Critical Thinking for Solutions Student Resource*. Record your ideas below.

COMPARE & CONTRAST

CONNECT

CREATE

CATEGORIZE

Which solution will you choose for the problem and why?

The island is infested with stinging beetles. They only appear to live in the forest, but at night the tide is too high to sleep on the beach.



The only food source you can find are coconuts, but they are located 60 feet up in the palm trees.



Since there are only short bushes on the island, there is no shade. During the day, the sun is blistering hot and burns your skin until it sets in the evening.



You notice that a jet flies over the island every few days, but it only comes in the middle of the night when it is dark, and people are sleeping.



At sunset, the temperature drops drastically, and the ground is too cold to sleep on at night. There are trees, but they are covered in thorns.



The island is covered in mud. During the day the mud gets thick and sticky, making it difficult to move around the island, but the best time to find food is during the day.



Every day at 3:00 pm, there is an extreme storm that destroys your shelter and leaves your food soaking wet.



At night, dangerous jungle cats come out of the forest and onto the beach. They can't climb. The only place to reach higher ground is a steep cliff with falling rocks.



STEPS to Solving a Problem



STATE THE PROBLEM

Describe the problem you are experiencing.

THINK OF SOLUTIONS

Determine multiple solutions to the problem.

EVALUATE THE SOLUTIONS

Consider how well each solution could solve the problem.

PICK A SOLUTION

Decide which solution would work best for the problem.

STEP UP AND TRY THE SOLUTION

Try the solution and reflect on if you need to re-evaluate the solution.

Critical Thinking for Solutions

Compare and Contrast

Think of solutions that worked for a similar problem.



Connect

Relate your solution to a similar solution.



Create

Use a possible solution to come up with a completely new solution.



Categorize

Arrange the solutions in some kind of order to determine the best solution.

