**Activity: Problem Solving**

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Scalable Data Infrastructures 04WDD

**1) Define the problem: A Cat, a Parrot, and a Bag of Seed**

a) A man must get a cat, parrot, and bag of seed to the other side of a river.

b) Think of this in terms of objects to visualize the process.

c) Get items to the other side of the river while adhering to set rules.

2) **Break the problem apart**

a) Cannot have the cat and parrot left alone or the parrot and bag of seed. Can only bring one at a time in the boat.

b) Rearrange objects within the set parameters to achieve goal.

3) Identify potential solutions

a) Change Cat, Parrot, and Bag of Seed to C,P, and S. Use a visualization of the problem to create potential ways to get C,P, and S to the other side of the river while adhering to the parameters.

4) Evaluate each potential solution

a) Does each solution meet the goals?

b) Will each solution work for ALL cases?

5) Choose a solution and develop a plan to implement it

a) Explain the solution in full.

b) Describe some test cases you tried out to make sure it works.

(You can include drawings and diagrams as part of your explanation as long as they are clearly communicating the solution