**4.1**

**Results for: Worksheet 3**

**Central Composite Design**

Factors: 2 Replicates: 1

Base runs: 12 Total runs: 12

Base blocks: 1 Total blocks: 1

Two-level factorial: Full factorial

Cube points: 4

Center points in cube: 4

Axial points: 4

Center points in axial: 0

Alpha: 1.41421

StdOrder RunOrder PtType Blocks pH NaCl

1 1 1 1 7.0000 0.000000

2 2 1 1 11.0000 0.000000

3 3 1 1 7.0000 0.500000

4 4 1 1 11.0000 0.500000

5 5 -1 1 6.1716 0.250000

6 6 -1 1 11.8284 0.250000

7 7 -1 1 9.0000 -0.103553

8 8 -1 1 9.0000 0.603553

9 9 0 1 9.0000 0.250000

10 10 0 1 9.0000 0.250000

11 11 0 1 9.0000 0.250000

12 12 0 1 9.0000 0.250000

**4.2**

-1~pH: 7.58

1~pH: 10.42

-1~NaCl: 0.07

1~NaCl: 0.427