THE SCIENCE OF SAND

OBSERVE • PREDICT • BUILD • EXPLAIN

Name: _____

Class: _____ Date: _____



Our challenge: Can wet beach sand become a tall, stable structure? Discover what happens when sand is vibrated and water drains.

1 BEACH GEOLOGY

What do you notice about the grains of sand? Compare size, shape or texture.

2 PREDICT

Which would make a better foundation: loosely piled sand or wet sand vibrated and allowed to drain? Why?

3 OBSERVE THE BUILD

What changed when the sand was vibrated? Where did the extra water go?

4 ENGINEERING + ART

Back at school: sketch your castle, label its foundation and explain one technique that helped it stay standing.