2027 SCHOOL FIELD TRIPS | GRADES 6-8

TAKE STEM TO THE BEACH!

TWO HOURS OF REAL SCIENCE, TEAMWORK & SANDCASTLE FUN







REAL SAND. REAL SCIENCE. REAL ENGINEERING.

WHAT STUDENTS EXPERIENCE

- **Beach geology and the story of our sand**
- **Water, gravity, vibration and strong foundations**
- **Hands-on building, carving and teamwork**

EASY FOR TEACHERS

- 2-hour guided experience
- Tools and stations ready
- Grades 6-8 • RGV schools
- School dates by arrangement

THE BEACH IS OUR CLASSROOM

Students learn the science by doing it: investigate real beach sand, build stable foundations, form sand blocks and carve their own castles with professional guidance.

PLAN YOUR 2027 SCHOOL VISIT

CALL OR TEXT 956-433-9948

sandcastlelessons@gmail.com | sandcastlelessons.com

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.

FOR RGV TEACHERS, PRINCIPALS & DISTRICT STAFF

FUND YOUR FIELD TRIP

PRACTICAL FUNDING PATHWAYS TO EXPLORE FOR 2027

START WITH YOUR SCHOOL OR DISTRICT

Ask your principal, grants office or federal programs coordinator which funds may support a curriculum-linked STEM field trip.

WHY THIS TRIP IS EDUCATIONAL

Two hours of hands-on Earth science, physics, engineering and design. Students explore beach geology, water movement, compaction and real-world construction principles.



1 **CAMPUS / DISTRICT BUDGETS**

Ask about science enrichment, approved field trips, instructional programs and transport funding.

2 **TITLE IV-A: WELL-ROUNDED EDUCATION**

Districts may support qualifying STEM enrichment; eligibility and spending must be confirmed locally.

3 **ARTS INSPIRE: TEXAS CULTURAL TRUST**

Check the next grant cycle and eligibility for qualifying arts-learning experiences.

4 **WALMART SPARK GOOD LOCAL GRANTS**

Eligible schools or nonprofit partners can investigate current local-grant opportunities.

5 **PTA / PTO + COMMUNITY SPONSORS**

Consider local businesses, education foundations or parent groups for bus and program support.

REQUEST A SCHOOL QUOTE: 956-433-9948

Funding is not guaranteed. Schools must confirm current dates, eligibility, approved educational purpose and allowable costs. Prepare a TEKS-linked plan, student worksheet, supervision plan and itemized budget.