

STEAM Poster: Sandcastles –due Tuesday

***See STEAM Posters Tab for complete directions**

Write 1 sentence to apply what you learned about each topic.

S: we wrote scientific facts about sandcastles. **Explain the physics of sandcastles.**

T: we used technology to research facts and pictures on sandcastles. **How is technology used to build a sandcastle?**

E: we engineering a place value chart and the defined the role of sand sculptors. **What's involved in engineering (building) a sandcastle?**– extra credit (scale model/SWAY)

A: **How do sand sculptors use their artistic abilities to create a realistic sculpture?** You can write about one that you have made, drawn or found on the Internet.

M: we converted measurements of the longest and tallest sandcastles using expanded form equations and Place Value Charts (**show your work**)

WRITE a sentence in MATH about the strategies you used to solve these problems.*Use Math Vocabulary*

FACTS:

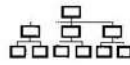
1) The tallest and longest sandcastles ever built in the United States of America were constructed at Myrtle Beach, South Carolina.

2) The longest sandcastle was measured at 10 ½ miles, and the tallest sandcastle was measured at 32 ½ feet.

***Solve these 2 problems using a Place Value Chart, Expanded Form, Conversions, and Multiplication. Show and Label each step. *Use Class Notes in your Math Toolbox**



TASK



- 1) Convert the length of the longest sandcastle into inches and record the measurements in a place value chart.
- 2) Convert the height of the tallest sandcastle into inches and record the measurements in a place value chart.
- 3) Explain your answers using Words, Number and Pictures.
- 4) Don't forget the S.T.E.A.M. – write complete sentences connecting your Research and Math.

Articles for Research-

Physics & Engineering-

The physics of Sandcastles

https://science.nasa.gov/science-news/science-at-nasa/2002/11jul_mgm

Castles Made of Sand

<https://whyfiles.org/shorties/sandcastle.html>

Engineering –

How to Build the Perfect Sandcastle

<http://gizmodo.com/5931532/the-science-of-building-the-perfect-sandcastle>

Floating Sand in Space

https://science.nasa.gov/science-news/science-at-nasa/2000/ast17nov_1