

GRADE 7 - STRUCTURES UNIT TEST REVIEW!

When: Tuesday, February 10th

What you should know/review:

1. What do the terms "FORM" and "FUNCTION" mean? Be able to describe the form and function of a few things that human beings rely on.
2. Understand the 5 different types of bridges that you learned about in class
3. The four different types of structures
4. Understand some different reasons why structures fail (crash! fall over! crumble!)
5. Know the different types of LOADS and FORCES that act upon structures
6. Understand the difference between weight and mass
7. Know the different types of beams that we learned about in class
8. Understand some different features of structures that help keep them stable and strong (beams, trusses, arches, domes, etc)

STUDENT'S CHOICE QUESTIONS

If a building were built on soft ground and tipped, what was the most likely cause of the structural failure?

- a)extraordinary loads
- b)bad design
- c)someone blew on it
- d)foundation failure
- e)faulty construction

What is a truss?

Name and describe three different types of bridges.

What are the four causes of structural failures?

What is the definition of a structure?

What does dead load mean?

What is the difference between weight and mass?

What are the 4 different types of beams we learned about in class?

Name and describe the 4 different types of structures.

What is the difference between the point of application and the plane of application?

Describe how a cantilever beam works (in a few sentences)