
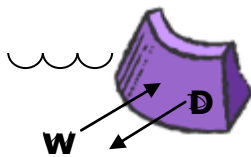


Four Types of Dams Answers

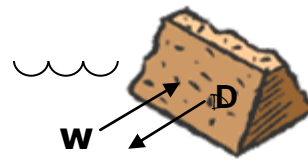
For each type of dam below, do the following:

1. Label each dam type with the name by which it is commonly known.
2. Draw waves () to indicate on which side of the dam the reservoir (water) will be.
3. Draw an arrow labeled “W” in the direction that the water exerts a force.
4. Draw an arrow labeled “D” in the direction that the dam exerts a force.

arch dam

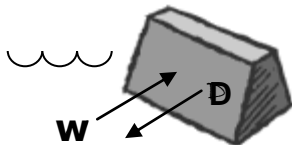


embankment dam

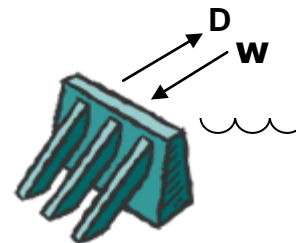


*** Reservoir may be on either side.**

gravity dam



*** Reservoir may be on either side.**



buttress dam

Which dam do you think should be used for Thirsty County? Why?

Answer: Whichever dam type the student chooses. (In a real engineering analysis, environmental conditions and community requirements/limitations would be considered in the decision on what type of dam to design and construct.)

Their explanation should include some information learned about that dam type, as presented in the Introduction/Motivation or Vocabulary/Definitions sections (such as the river's geology and terrain, availability/type of dam building materials, budget).