

Structures and Forces Practice Quiz

Topic 2 - Describing Structures

1. Containing, sheltering, transporting, lifting ... are all words to describe a structure's **design**

stability

function

aesthetics
2. When a structure is built to withstand loads - more than it normally would carry - the structure is built with a larger ...
foundation

symmetrical base

set of pilings

margin of safety
3. One important criteria of good design - that is usually not written down in the specifications - is that the structure ...
has a margin of safety

is esthetically pleasing

is cost effective

has a solid foundation

4. The following is an example of a composite material
a cardboard box

tent

drywall

reinforced concrete

5. When choosing the most suitable materials to build a structure, architects, engineers and designers should consider all of the following before making their final choice ...
cost, appearance, environmental impact, energy efficiency

cost, color, life expectancy, impact strength

environmental appearance, type of symmetry, type of joints needed, cost effectiveness

flexibility, impact strength, energy efficiency, color

6. Mobile joints are used to secure materials together in a structure. All of the following joints are examples of mobile joints (allowing movement in a structure) EXCEPT ...
a trailer hitch

photocopier lid

ball and socket joint (shoulder)

lego

7. Adhesives are used to bind materials together. A type of adhesive that hardens when it cools is ...
thermosetting glue

therapeutic glue

solvent-based glue

solvent-enriched glue

Check your Answers

Structures and Forces Practice Quiz

Topic 2 - Describing Structures

1. Containing, sheltering, transporting, lifting ... are all words to describe a structure's **design**

stability

function (Text p. 283) Word Connect

aesthetics

2. When a structure is built to withstand loads - more than it normally would carry - the structure is built with a larger ...

foundation

symmetrical base

set of pilings

margin of safety (Text p. 285)

3. One important criteria of good design - that is usually not written down in the specifications - is that the structure ...

has a margin of safety

is esthetically pleasing (Text p. 284)

is cost effective

has a solid foundation

4. The following is an example of a composite material
a cardboard box

tent

drywall

reinforced concrete (Text p. 286)

5. When choosing the most suitable materials to build a structure, architects, engineers and designers should consider all of the following before making their final choice ...
cost, appearance, environmental impact, energy efficiency (Text p. 288-289)

cost, color, life expectancy, impact strength

environmental appearance, type of symmetry, type of joints needed, cost effectiveness

flexibility, impact strength, energy efficiency, color

6. Mobile joints are used to secure materials together in a structure. All of the following joints are examples of mobile joints (allowing movement in a structure) EXCEPT ...
a trailer hitch

photocopier lid

ball and socket joint (shoulder)

lego (Text p. 290) Lego doesn't move than the pieces snap together

7. Adhesives are used to bind materials together. A type of adhesive that hardens when it cools is ...
thermosetting glue (Text p. 292) Glue in a glue gun is a good example of the type of glue that hardens when it cools

therapeutic glue

solvent-based glue

solvent-enriched glue