



Grade 7 Science

Unit 4: Structures

S.E. Design Challenge

For the next five periods you will be working on a group design challenge that focuses on the principles taught in our Structures unit. Today I will review the project, explaining what you will be required to do, what you will produce, how it will be tested, and how you will achieve your mark. You will then get into groups and begin brainstorming for this task.

The timeline for this project is not flexible, absolutely no late work will be accepted.

Let's have a look at the project:

<p>STRUCTURAL DESIGN CHALLENGE</p> <p>Challenge:</p> <ul style="list-style-type: none"> Design a structure that can support the weight of a 1kg mass for 10 seconds. <p>Goal:</p> <ul style="list-style-type: none"> Design a structure that can support the weight of a 1kg mass for 10 seconds. <p>Criteria:</p> <ul style="list-style-type: none"> The structure must be able to support the weight of a 1kg mass for 10 seconds. The structure must be made of the materials provided. The structure must be able to support the weight of a 1kg mass for 10 seconds. <p>Success:</p> <ul style="list-style-type: none"> The structure can support the weight of a 1kg mass for 10 seconds. The structure is made of the materials provided. The structure is able to support the weight of a 1kg mass for 10 seconds. 	<p>Assess:</p> <ul style="list-style-type: none"> Design a structure that can support the weight of a 1kg mass for 10 seconds. The structure must be made of the materials provided. The structure must be able to support the weight of a 1kg mass for 10 seconds. <p>Criteria:</p> <ul style="list-style-type: none"> The structure must be able to support the weight of a 1kg mass for 10 seconds. The structure must be made of the materials provided. The structure must be able to support the weight of a 1kg mass for 10 seconds. <p>Success:</p> <ul style="list-style-type: none"> The structure can support the weight of a 1kg mass for 10 seconds. The structure is made of the materials provided. The structure is able to support the weight of a 1kg mass for 10 seconds. 	<p>Goal:</p> <ul style="list-style-type: none"> Design a structure that can support the weight of a 1kg mass for 10 seconds. 
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Today is day 1 for this project.

You will form your groups today.

- four or five students
- write names of all group member and class number on a post-it
- bring post it to me

Any student owing work will not participate in this project until they have handed in their work. Those students may remove themselves from the group now and begin to work.

Once you have your group, you may use the remainder of the period today to plan your structure - KEEP THE CRITERIA IN MIND.

You should have a design plan in place by next class.



Attachments

4-32 Design Challenge.pdf