

Remember, most of the Questions will be Rewarded



## Engineering Towers

### Module Guide

1. What kind of brace can be added to a square or rectangle to give it strength?  
A. side  
B. vertical  
C. diagonal  
D. horizontal  
1. C
2. A truss is a framework made up of what geometric shape?  
A. triangular  
B. circular  
C. oval  
D. concrete  
2. A
3. What are the two most common forces that will be acting on each piece of wood in your tower?  
A. up and down  
B. weight and static  
C. static and dynamic  
D. compression and tension  
3. D
4. Tension is a type of stress that occurs when members are what?  
A. pulled apart  
B. twisted  
C. fused together  
D. sheared off  
4. A
5. A rigid member in tension is called a tie. A strut is a rigid member in what?  
A. torsion  
B. compression  
C. pier  
D. tension  
5. B
6. The legs of your tower will be subjected to compression, which is what kind of force?  
A. twisting  
B. pulling  
C. squeezing  
D. dynamic  
6. C
7. To support a load is what?  
A. the most important function of a house  
B. a function that all structures have in common  
C. a definition of functional stress  
D. a definition of tension  
7. B
8. What is another word for a force placed on a structure?  
A. covering  
B. beam  
C. stage  
D. load  
8. D
9. What is another word for a load that is always moving?  
A. loco  
B. static  
C. dynamic  
D. stationary  
9. C
10. For engineering purposes, the triangle is the best choice of all the geometric shapes for providing which element?  
A. design  
B. look  
C. strength  
D. balance  
10. C

Please return to Module or Mr. Lopez