Name	15 M of Manager Approximated	Date Due:	
UNIT 4 Topic 4	STRUCTURES a	and FORCES and Stresses	
1. In what three ways ca	in a small object's moti	ion change after it has bee	n kicked?
2. What is meant by "ext	emal forces" ?		
3. What effect can extern	nal forces have on a sti	ructure?	
4. What is a deformation	?		
External Forces:			
5. What is a "dead load" o	on a structure. Give an	example.	n
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6. What is meant by a "liv	e load" on a structure?	Give an example.	
7. What are impact forces	? Give an example.	•	
8. What caused the Leani	ing Tower of Pisa to tilt		
9. Define and diagram the	following:		
Tension Forces		Compression Fo	orces

- 10. What forces combine to produce a bending force?
- 11. Read "Did You Know" p. 313. What material is the strongest material known?

What spider produces a web strong enough to trap a bird?

Resisting Stress-The Inside View

- 12. Why does steel have high tensile strength?
- 13. Why does graphite have low shear strength?
- 14. Why does rubber have high torsion strength?