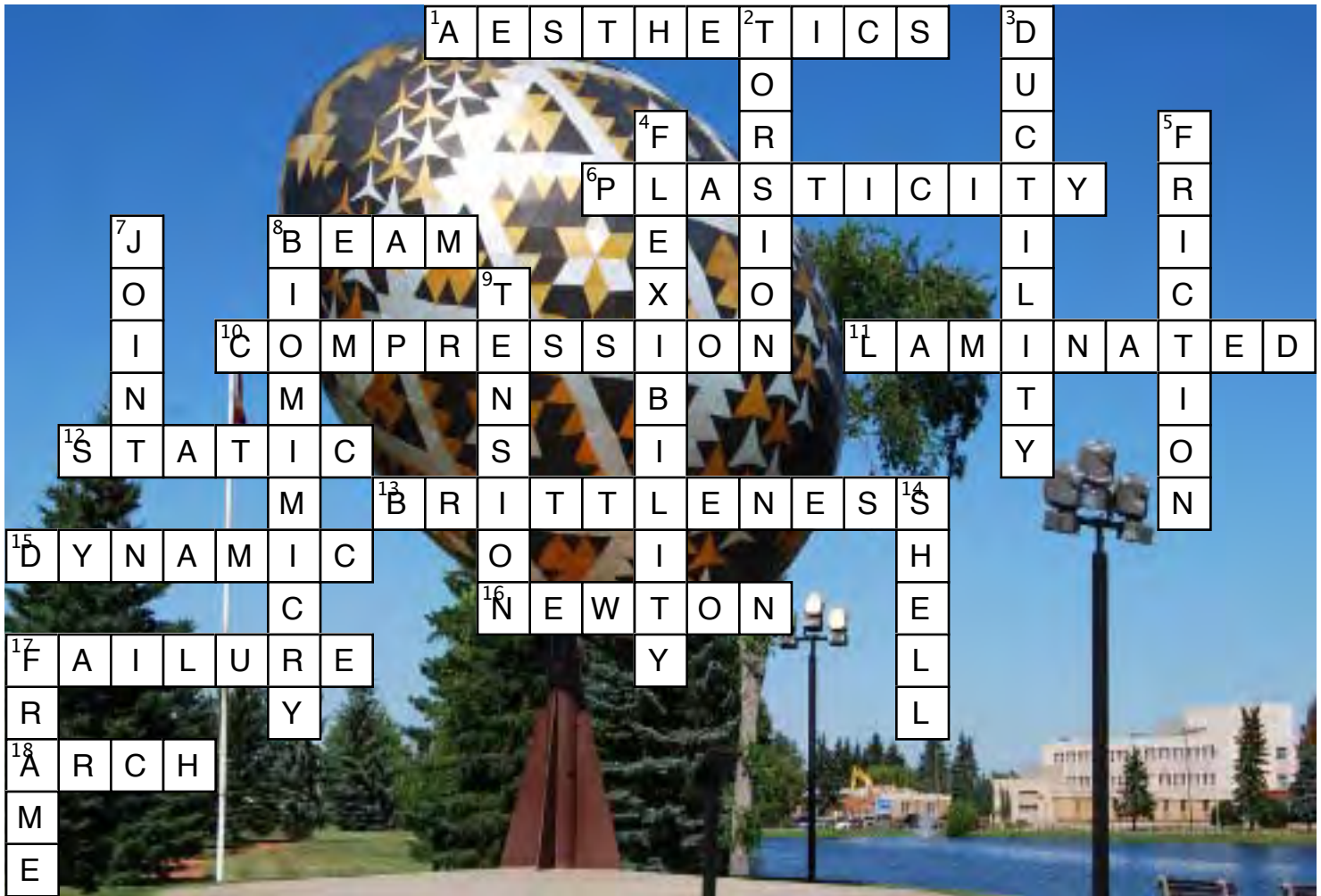


Unit D - Structures and Forces Review

Science 7
ADLC



Across

1. A structure that looks pleasing to the eye is said to have good _____. [AESTHETICS]
6. A property of a material that describes its ability to be molded into different shapes. [PLASTICITY]
8. What is the most common type of bridge? [BEAM]
10. A force that acts to push or squeeze an object. [COMPRESSION]
11. A structure that is made of many layers joined together. [LAMINATED]
12. The weight of the materials in a building is an example of _____ load. [STATIC]
13. A property of a material that describes how easily it breaks. [BRITTLENESS]
15. Cars driving across a bridge is an example of _____ load. [DYNAMIC]
16. The unit used to measure force. [NEWTON]
17. When a structure can no longer stand up to the forces acting on it, structural _____ occurs. [FAILURE]
18. What is a strong curved shape used in bridges that transfers force down each side to the ground? [ARCH]

Down

2. A force that twists an object. [TORSION]
3. A property of a material that describes its ability to be stretched into thin wires. [DUCTILITY]
4. The ability of a material to be bent under force without breaking. [FLEXIBILITY]
5. A force that occurs when two surfaces are touching each other. [FRICTION]
7. A knee is an example of a flexible _____. [JOINT]
8. Structures designed to be like structures in nature show _____. [BIOMIMICRY]
9. A force that acts to stretch or pull something apart. [TENSION]
14. An igloo is an example of a _____ structure. [SHELL]
17. A roller coaster is an example of a _____ structure. [FRAME]