1. Make a card square and triangular frame and test them. Which is strongest?

2. What is triangulation? Why is it commonly used in structures?

3. Write a paragraph about the Eiffel Tower. Paste an image of the tower.

4. Sketch and name five sections of solids / tubes. (sections are often used in structures).

5. There are five main types of frame structures. Name each one.

6. Draw an example of a plain frame structure.

7. What are structural frames? Paste two images of this type of frame.

8. What is a space frame structure? Paste one example of this type of frame.

9. What is the difference between monocoque and semi-monocoque structures?

10. Sketch and describe a wood frame bridge.

11. Sketch a stone arch bridge. What is important about the keystone?

12. Write brief notes on the Ribblehead Viaduct. Include an image.

13. Describe and sketch a cable stay bridge. Name a famous example.

14. Paste an image of a cantilever bridge and also a suspension bridge. Name each bridge.

15. What was the Tacoma Narrows Suspension Bridge disaster? Include an image of its final moments.