Level:	Examples of Questions:
Knowledge Emerging	• What is a structure? • What are the different types of bridges you may use? • What is the purpose of a bridge? • What is each piece of a frame structure called? • When was Golden Gate Bridge constructed? • Who designed the Empire-State Building? • Where is the tallest tower in the world situated?
Comprehension Developing	• Explain what the term Triangulation means. • Identify a structures that a good example of a cantilever. • Describe how 2 ways to strengthen a frame structure. • Describe how a key stone works within a structure. • Identify two the two forces that act on a shelf when it bends? • Describe what a static force is?
Analysis Embedded	• Why do you think most buildings combine different materials? • What evidence is there to suggest a pyramid is a stable shape? • Why do you think the tall tower did/didn't work? • Why do you think it is important for structures to be able to withstand geological movements? • Why do larger buildings have foundations?
Synthesis Embedded	• How would change the design of your tall tower to make it stronger and more stable? • What effects would more time for making have had on you final tower? • How would you change a basic beam bridge design to make it more aesthetically pleasing? • What would you improve your bridge design to make it stronger? • How would you change the design of the empire state building to make it appear more modern or futuristic?
Evaluation Embedded	• What is your opinion of the structures project? • How effective was your design for the tallest tower? • How well do you think you worked in a group and why? • Did your group function well as a unit? • How well have you worked during this project? • How accurate were your measurements?
Application	• Use of workshop machinery to make an accurate square frame which will be cross-braced. • Analyse existing structures. • Use modelling to develop and evaluate design ideas. • Work in a group to design and make a tall stable strong tower using newspaper. • Work in group to design and make a strong bridge using wood off-cuts and lolly sticks. • 3 week homework project about bridges.