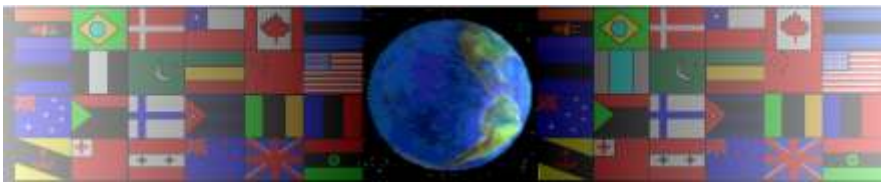
SUSPENSION BRIDGE

On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

SUSPENSION BRIDGE

1. The roadway / deck is the most important part of any bridge, as it allows people and traffic to cross. How is the deck of a typical suspension bridge held in position?

_____

_____

_____

2. Name three well known suspension bridges. One in each of the following countries:

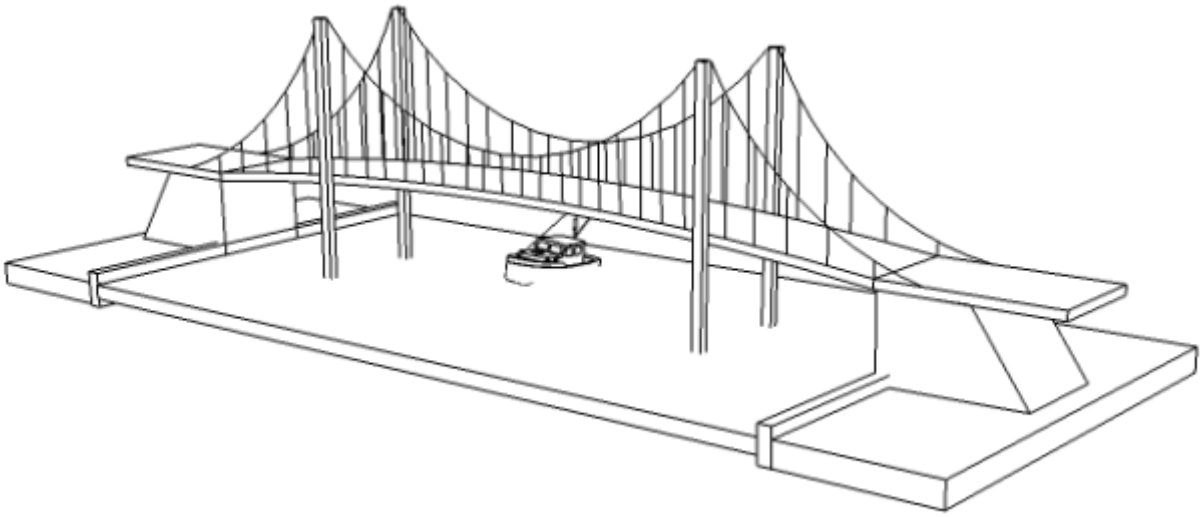
JAPAN: _____ USA: _____

UK: _____

3. On the diagram shown below, add labels to indicate the following parts:

DECK ANCHOR BLOCKS MAIN CABLES TOWERS

4. Add appropriate colour and shade to the drawing of the suspension bridge.



5. What is the function of the anchor blocks of a suspension bridge?

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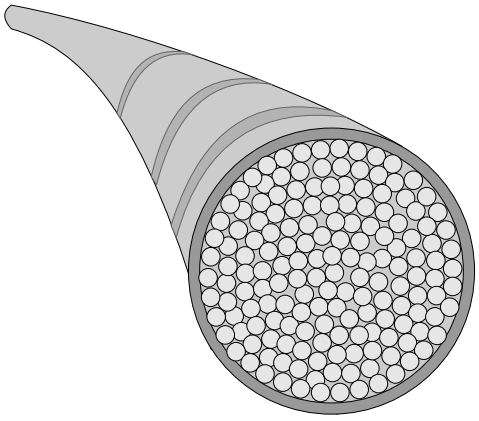

6. A section of a typical suspension bridge main cable is shown opposite. Describe the 'make up' of the cable.

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_____

7. Draw a person alongside the cable. This is to show the thickness of the cable in relation to the height of a human. Assume the suspension bridge is the size of one of the bridges named in question 2.

8. Label the important parts of the cable, using arrows to identify their position.