

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## My Design for a Model of the Clifton Suspension Bridge

Sketch a picture of your design and label what materials you will use for each component:



What materials will you need?

What tools will you need?

How will you make sure your structure is sturdy?

I will know my suspension bridge is successful if...

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## My Design for a Model of the Clifton Suspension Bridge

Annotated design:

Materials and tools:

How will you join the cables to the towers?

How will you join the cables to the roadway?

Name: \_\_\_\_\_ Date: \_\_\_\_\_

How will you ensure your structure is sturdy?

Describe the step-by-step process you will take to create your bridge:


Success criteria:

Name: \_\_\_\_\_ Date: \_\_\_\_\_



### Bridge Model Evaluation

Mark your answers from 1 to 10 depending on how you feel about each response. 1 = disagree and 10 = agree.

I am happy with how my bridge turned out.

1	2	3	4	5	6	7	8	9	10
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I followed my design well when creating my bridge.

1	2	3	4	5	6	7	8	9	10
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I chose sensible materials when making my bridge.

1	2	3	4	5	6	7	8	9	10
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I chose sensible tools when making my bridge.

1	2	3	4	5	6	7	8	9	10
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I was able to work safely and sensibly with different tools.

1	2	3	4	5	6	7	8	9	10
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My bridge is sturdy.

1	2	3	4	5	6	7	8	9	10
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My bridge looks like Isambard Kingdom Brunel's original design.

1	2	3	4	5	6	7	8	9	10
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I enjoyed making my bridge.

1	2	3	4	5	6	7	8	9	10
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There are lots of things I would change if I was to make my bridge again.

1	2	3	4	5	6	7	8	9	10
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How many marks out of 10 would you give your bridge overall?

1	2	3	4	5	6	7	8	9	10
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Name: \_\_\_\_\_ Date: \_\_\_\_\_



**Bridge Model Evaluation**



What did you enjoy most about making your bridge and why?

What did you find most difficult about making your bridge and why?

How well did the materials you chose suit their purpose?

Do you think you chose sensible joining techniques? Why or why not?

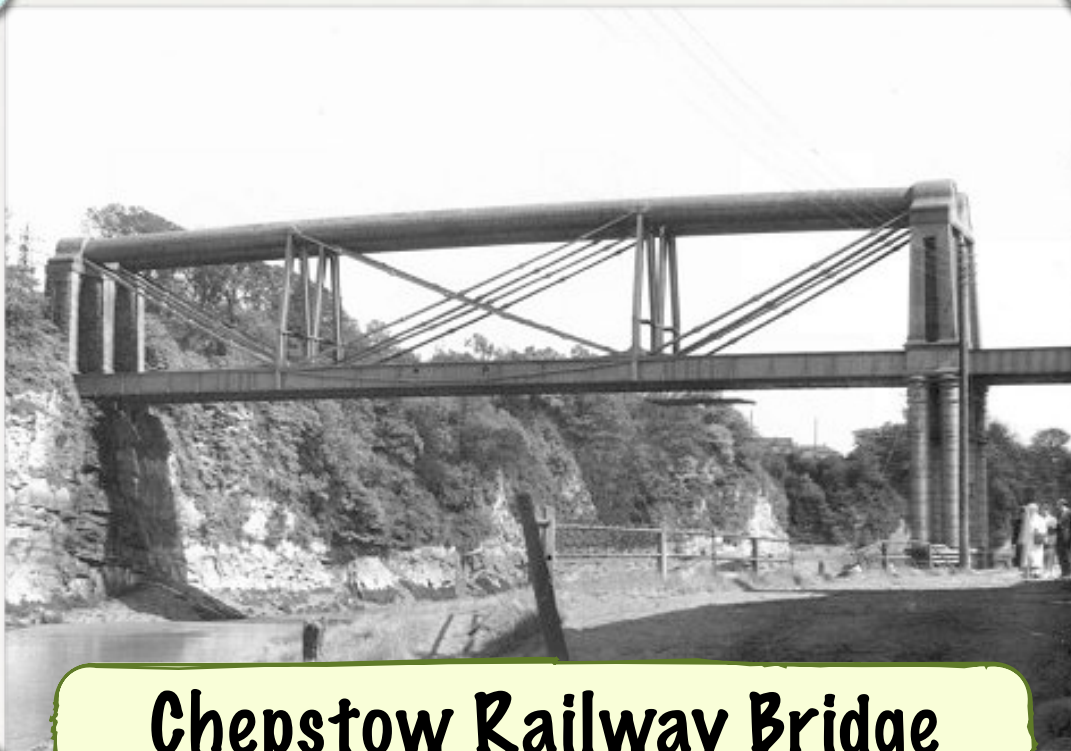
How well did you follow your design when making your bridge?

How sturdy is your bridge? Why do you think this is?

What would you change if you were to make your bridge again and how could you improve your finished product?



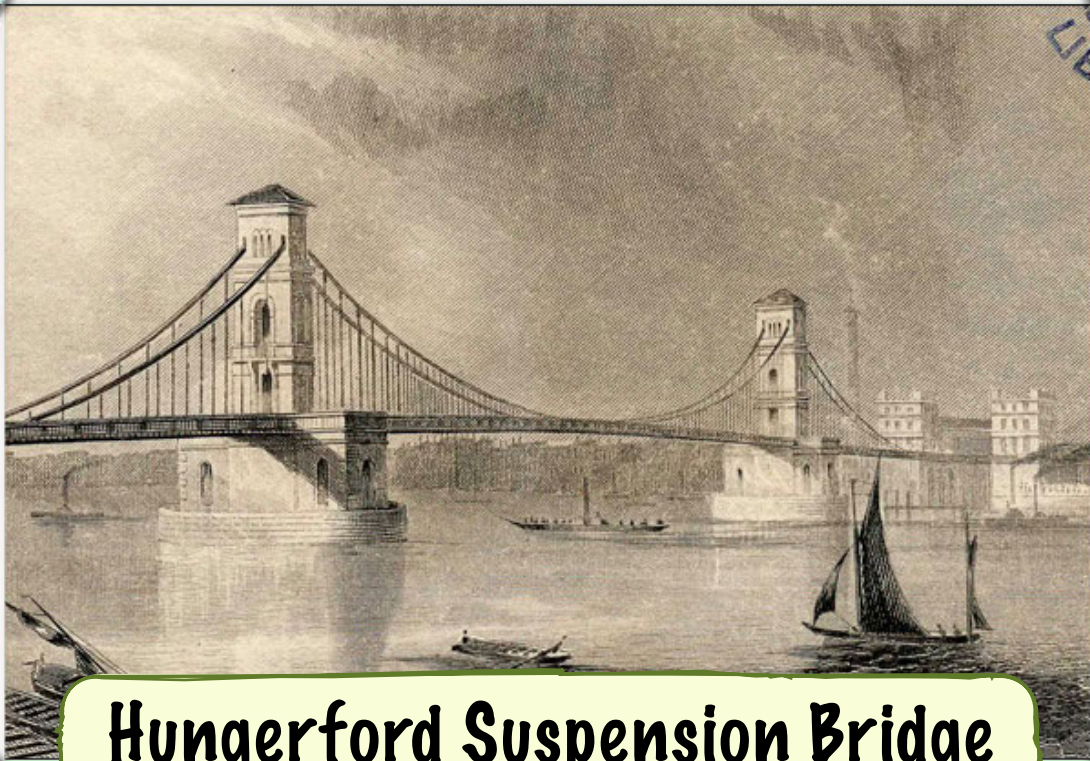
**The Royal Albert Bridge**



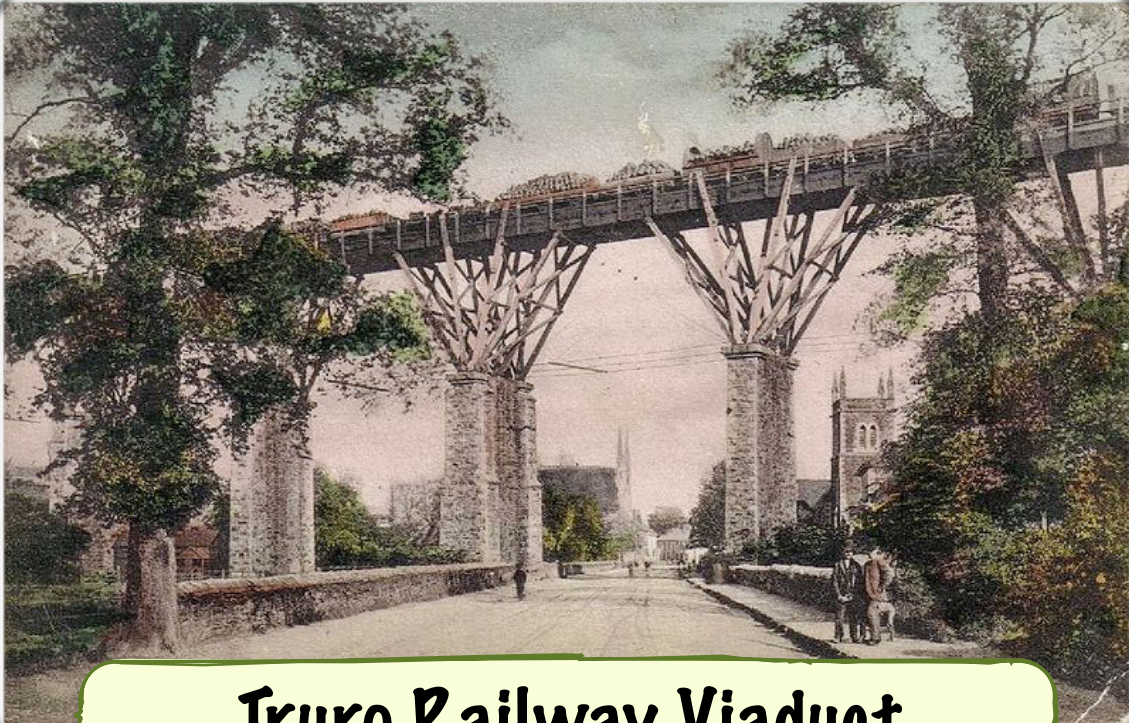
**Chepstow Railway Bridge**



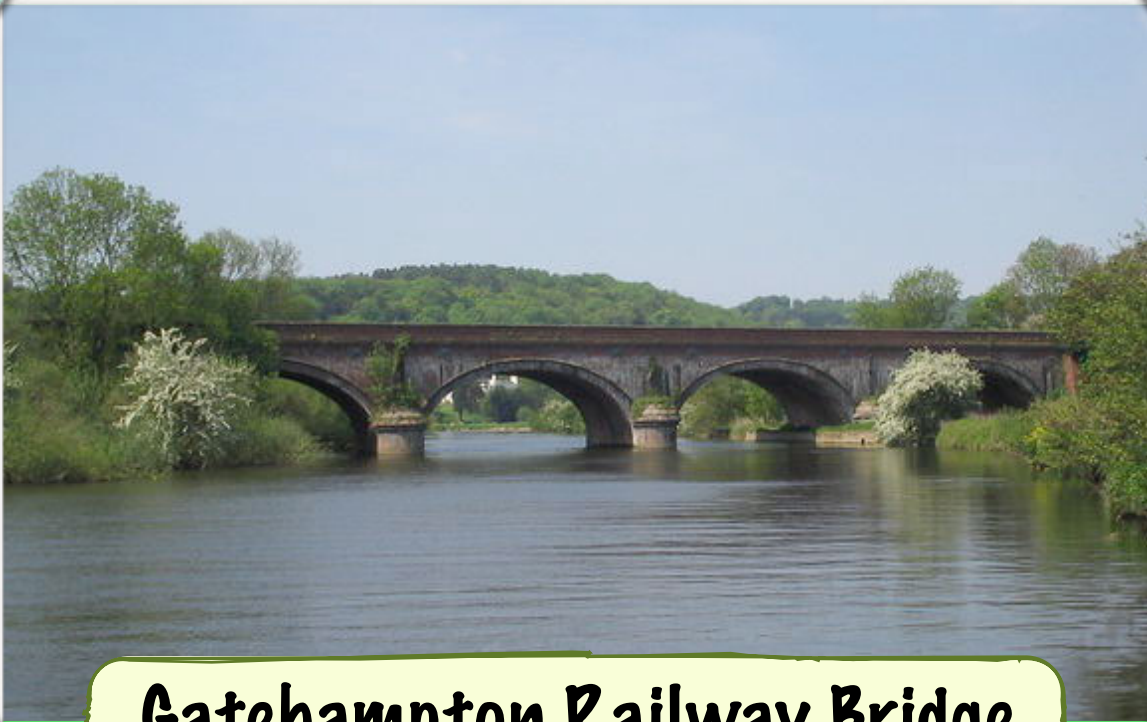
**Clifton Suspension Bridge**



**Hungerford Suspension Bridge**



**Truro Railway Viaduct**



**Gatehampton Railway Bridge**