Design a Bridge

Can you think about a river, road or railway line near your school and design a new bridge to cross it?

Before you start, consider the following questions:

**Who** is going to be using your bridge?

pedestrians

cars

trains

What will be travelling underneath?

boats

trains

cars

Does your bridge need to stretch a long way?

yes

no

Will the bridge be high or low?

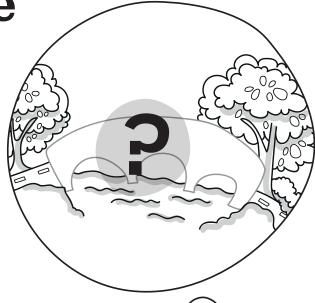
high

low

Do you want it to fit in with your local area or... stand out?

fit in

stand out



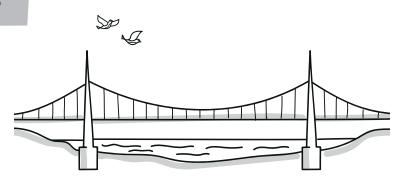




Now consider how you can make it structurally sound. What type of **bridge** do you think will best suit the task?

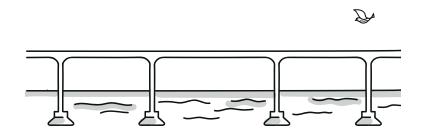
### suspension bridge

- Great for stretching long distances
- Can withstand earthquakes
- Cost effective
- Uses minimal materials



### beam bridge

- Quick to build
- Can be built from many different materials
- Can sag and weaken over time
- Can be joined together to lengthen or widen



## bascule bridge

- Can lift for passing ships
- Suitable for small spaces
- Efficient, need only be raised to the ships height
- Requires engine to lift







Name \_\_\_\_\_

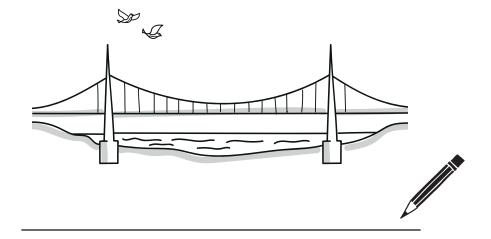
**Date** \_\_\_\_\_

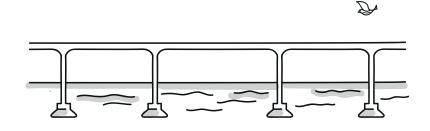
Write the correct bridge name for each picture.

# suspension

#### beam

## bascule









ow you're ready to sign your bridge! aw it in the box below.	Remember It must be practical, attractive and
	structurally sound.

Date

All bridges have a name and **Tower Bridge** is named after the **Tower of London**, it's closest neighbour. Now you have designed your own bridge, why not give it a name? Why did you choose that name?

My bridge's name is...





Name