

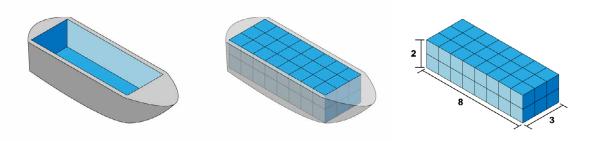
**Worksheets** 

### **TUNNELWORKS**

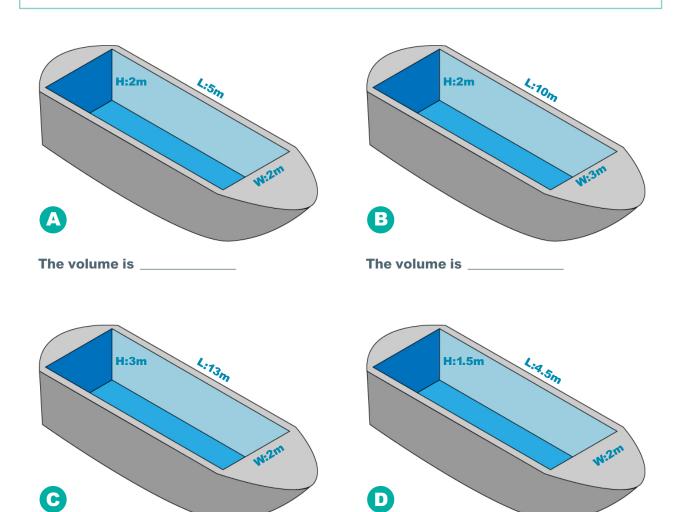
The volume is

# **KS2 SCIENCE** LESSON 1 WORKSHEET

# **CALCULATING VOLUMES**



Work out how much spoil each barge can carry. Each cube is equal to 1m³ and weighs 2 metric tonnes. Use the pictures at the top of the worksheet to remind yourself how to do the calculation.



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The volume is \_\_\_\_\_





Worksheets

### **Questions:**

1. Which barge has the bigges	t volume?		
Barge			
2. If the engineer has 120 tonn  Barge	_		
3. Thames Tideway Tunnel car How much spoil can it t	only use barge A	today.	
How much of the 120 to	nnes will be left?		tonnes

#### **Extension**

Use squared paper to draw your own different sized barge holds and ask a partner to calculate what the volume of it is.

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**Worksheets** 

#### **Answers:**

1. Which barge has the biggest volume?

**Answer: Barge C** 

Barge A: 20 cubic metres, or 40 tonnes Barge B: 60 cubic metres, or 120 tonnes Barge C: 78 cubic metres, or 156 tonnes Barge D: 13.5 cubic metres, or 27 tonnes

2. If the engineer has 120 tonnes of spoil to load, which barge is the best one to use?

**Answer:** Barge B (each cubic metre of spoil weighs two metric tonnes)

3. Thames Tideway Tunnel can only use barge A today. How much spoil can it take and how much of the 120 tonnes will be left?

**Answer:** It can carry 40 tonnes, so 80 tonnes will be left behind.

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