

Design a class garden bed

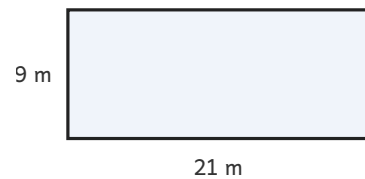
MODULE 4 · MEASURES — LENGTH, MASS, CAPACITY, AREA, VOLUME MEASURES

HOW TO ANSWER TODAY

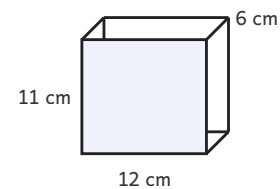
- **Area.** Area = length $\times$ width. Write the answer in square units (cm^2 , m^2).
 $5 \text{ m} \times 3 \text{ m} \rightarrow 15 \text{ m}^2$
- **Volume.** Volume = length $\times$ width $\times$ height. Answer in cubic units (cm^3 , m^3).
- **Perimeter.** Perimeter is the distance ALL the way round. Rectangle: (length + width) $\times$ 2.
 $12 \text{ m by } 8 \text{ m} \rightarrow (12 + 8) \times 2 = 40 \text{ m}$

★ STRETCH PROBLEMS

- 1 5th class are marking out a rectangular training area on the GAA pitch before their Gaelic football session. The training area measures **21 m** by **9 m**. What is its area?



- 2 At the after-school crafts club, Oisín builds a small cuboid storage box to hold the kite-making supplies. The box measures **12 cm** long, **6 cm** wide and **11 cm** high. What is the volume of the box?



- 3 The caretaker is putting new fencing around the school's rectangular vegetable garden. The garden measures **39 m** along the long side and **14 m** along the short side. How many metres of fencing are needed to go all the way around?



- 4 Saoirse cuts triangular bunting flags to decorate the table for the 5th class Christmas hamper raffle. Each flag has a base of **10 cm** and a perpendicular height of **4 cm**. What is the area of one flag?

- 5 Cara is making a triangular bunting flag for the school's Seachtain na Gaeilge display. The flag has a base of **12 cm** and a perpendicular height of **5 cm**. What is the area of the flag?