

Area & Perimeter

Use Reality Composer to cast an AR Fenced Area

Activity

As a tune-in or clarification of a misconception of Area vs Perimeter by using Reality Composer to create a fence around an area where students can walk in to visualise an area of enclosed space. Fence of designated lengths with clear labels for students to add the lengths and breadths to determine perimeter. Floor squares within the enclosed space of 1 square metre for students to calculate area.

Objectives

Students will be able to

- Visualise the fundamental difference between an area and its perimeter
- Understand how perimeter (peri' for around) is calculated by adding the lengths and breadths
- Visualise the size of a square metre






Extensions

Teacher can

- Consider including a table within the fenced area with a sheet of paper to explain the difference in scale between a square centimetre and a square metre which is a common error in students
- Scale the AR to include composite figures by adding another square of fenced area, then progress to more squares or rectangles
- Build upon the Reality File to add "Scenes" to include math elements for volume (P5) and nets (P6), even science, animal diorama describing amphibians, reptiles, insects, mammals, et cetera

Have a go



- 1 Open Reality Composer . Create a new document. Tap + > Basic > Shapes. Create a unit cube, tap on it to select it. In the properties inspector, size the 'Width' to 100cm, 'Height' to 100cm and 'Bevel Radius' to 3cm. Tap on object, tap on  to rotate the square on its axis to 0 degrees to form the unit base area.
- 2 Tap + > Basic > Text to add a label to the base unit of '1 square metre' and use the cones ,  and  to affix the label onto the base unit. With one finger on the base unit, tap the label to group it together.
- 3 In Properties Inspector, choose a colour for the base unit. Tap on object to duplicate to a designated number to form an aggregated base area (e.g. 3 x 3 for 9 square metres).
- 4 Use the same method in Step (1) to create a fence to enclose the base area. Consider creating a number of enclosed areas to emphasise difference (e.g. 1 x 3 grid of 3 sqm but 8m in perimeter)
- 5 Collaborate with Science to augment the worksheet. Diversity in Animals (P3), Habitats and Community (P6) et cetera.

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