



Mathematics

Stills from our new mathematics titles



Calculating Duration Across Time Zones

Calculating flight distances within and across time zones is a common need. This clip investigates the arrival and departure times of someone travelling within and across time zones in Australia and Asia, using both 12 hour and 24 hour time. Ideal for applying mathematical concepts to real world situations.

ACMMG199

Additional Resources

- Worksheet
- Suggested Responses



2014 | 5 min | Australia | CC | AR | T115

Small and Large Time Scales

This clip demonstrates the usefulness of scientific notation (standard form) to express very large and small numbers. Examples worked through include evolutionary time periods, blinking, and the speed of light. Ideal for introducing or reinforcing concepts.

ACMMG219

Additional Resources

- Worksheet
- Suggested Responses



2014 | 5 min | Australia | CC | AR | T115

Finding the Area of Composite Shapes

Our narrator is helping to build a new playground. Her boss needs her to determine the area of different zones of the playground, some of which are composite shapes. Follow along as she works through the best way to determine the area of each shape, including partitioning. Ideal for applying mathematical concepts to real world situations.

ACMMG216

Additional Resources

- Worksheet
- Suggested Responses



2014 | 5 min | Australia | CC | AR | T115

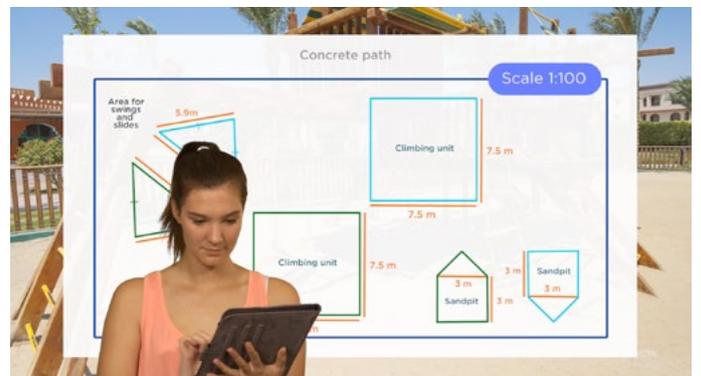
Congruent Shapes and Transformations

Our narrator is planning the layout of a new playground; she needs to recognise properties that determine congruence and which transformations create congruent figures. Follow along as she determines whether two figures are congruent after transformations (translation, reflection, rotation). Ideal for introducing or reinforcing concepts.

ACMMG200

Additional Resources

- Worksheet
- Suggested Responses



2014 | 5 min | Australia | CC | AR | T115

Proving Congruent Triangles

While building a barbeque shelter, our narrator's boss puts her geometry skills to the test by asking her to mathematically prove that five triangular roof trusses are congruent triangles. Follow along as she applies SSS, SAS, ASA, AAS proofs to her handiwork. Ideal for applying mathematical concepts to real world situations.

ACMMG243

Additional Resources

- Worksheet
- Suggested Responses



2014 | 5 min | Australia | CC | AR | T115

Congruence and Similarity in Plane Shapes

Our 'tradie' narrator is busy constructing a playground. Follow along as she goes beyond practical demonstrations to mathematically prove that she is creating sunshade shapes that are congruent or similar to the equipment they are covering. By applying logical reasoning, she is able to work through her proofs step by step. Ideal for applying mathematical concepts to real world situations.

ACMMG244

Additional Resources

- Worksheet
- Suggested Responses



2014 | 5 min | Australia | CC | AR | T115