

Can I design and make a roly poly toy?

Evolution

Prior Knowledge

In Year 1, children designed and made their own shadow puppets.

Last term in Year 2 they designed and make their own fridge magnets.



My Component Knowledge:

Lesson 1: I can consider how rolling toys move.

Lesson 2: I can investigate and evaluate methods to join materials.

Lesson 3: I can design facial expressions for a roly poly.

Lesson 4: I can design and decorate the body of a roly poly.

Lesson 5: I can design my own roly poly.

Lesson 6: I can follow a plan to make my own roly poly.

Lesson 7: I can evaluate my own roly poly.

My Composite Knowledge:

I can investigate different joining methods and existing rolling toys to make my own.

My Powerful Knowledge:

I can build on my prior knowledge of mechanisms from Year 1. I can use my knowledge of layering materials from last term to design a face for my roly poly. I can think critically about the shape of the wheels to determine how I want my toy to move.

Key Vocabulary

Tier 1: Shape, make, toy.

Tier 2: bracket, slit, centre, weak, strong, easy, difficult, circle, cylinder.

Tier 3: features, expression.



How do all rolling toys move? What's the same and what's different?



How do your wheels affect how your roly poly moves and why?