# Make, compare and classify objects, identifying key features and explaining...

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## Learning intention

- make, compare and classify objects, identifying key features and explaining why these features make them suited to their uses

## Teach and model

- classifying a collection of geometric objects, including cylinders, spheres, prisms and pyramids according to key features such as the shape and number of faces and/or...
- making and comparing objects built out of cubic blocks and discussing key features; for example, comparing the amount of space objects occupy by counting how many blocks...
- making geometric objects in solid form out of connecting cubes, in skeleton form with straws, and constructing objects using dynamic geometric software, recognising...

## Check understanding

- Explain the main idea in make, compare and classify objects, identifying key features and explaining... using an example.
- Show the idea in a second way: with words, a model, a diagram or symbols.
- Apply the idea to a short unfamiliar situation and justify the result.

## Teaching cautions

- Ask the student to explain their choice, not only state an answer.
- Check that key vocabulary is understood in a new example.
- Mix representations so the skill is transferred rather than copied.

## Quick lesson sequence

- Connect to prior knowledge and introduce the key vocabulary.
- Model one clear example, then solve a second example together.
- Finish with an independent check and a short student explanation.