

Estimate, construct and measure angles in degrees, using appropriate tools...

estimate, construct and measure angles in degrees, using appropriate tools including a protractor, and relate these measures to angle names

Learning intention

- estimate, construct and measure angles in degrees, using appropriate tools including a protractor, and relate these measures to angle names

Teach and model

- using a protractor to measure angles in degrees and classifying these angles using angle names; for example, an acute angle is less than 90° , an obtuse angle is more than...
- estimating the size of angles in the environment using a clinometer and describing the angles using angle names
- using a ruler and protractor to construct triangles, given the angle measures and side lengths

Check understanding

- Explain the main idea in estimate, construct and measure angles in degrees, using appropriate tools... 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.