

Good practices

MATH_119BC_EN

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Description of the problem / exercise: **Creating angles from Poly-Universe elements**

Drawing angles with a compass and ruler and pencil is basically a math curriculum. Use the triangle and square forms to create angles! Preferably first form plain angles from the smaller shapes at the vertices of the elements:

Eg.: 30° , 60° , 90° , 120° , 150° , 180° , 240° , 270° , 300° , 330° , 360°

If all options have already been produced, then they can also rise in space in the production of shapes, angles

Eg.: 15° , 45° , 105°

We can also try to measure the angles of spatial shapes made from elements of the Poly-Universe with the angles already known above.

We can check the accuracy of the angles constructed with a compass and ruler with the angles we know.

- *Why this exercise is good: Develops logical thinking ability, numeracy ability, spatial vision and spatial orientation ability. Tactile sensing helps to capture the magnitude of the angles even better, helps to perceive the magnitudes better.*
- *Which level is recommended: Upper elementary and secondary school*
- *School subject(s): Mathematics*
- *Comments: It is common experience that the size of the angles is difficult for students to experience. This is where the tool can help. Even visually impaired and blind students can use it well to learn angles.*