

Note: NO CALCULATOR IS PERMITTED FOR THIS EXAM.

The following content can be found in the mathematics text for elementary education majors, *Reconceptualizing Mathematics* by Sowder, Sowder, and Nickerson, Freeman Publishing, 2010.

Students should bring to the exam a compass, protractor, and ruler.

Topics covered on the exam:

Polyhedra

Polygons

Symmetry

Tessellations

Size changes and similarity

Curves, constructions, and curved surfaces

Transformation geometry

Measurement

Area, surface area, and volume

Pythagorean Theorem

Some Other Kinds of Measurements