

TEST 2: TOPICS SUBJECT TO EXAMINATION

- The six basic constructions
- Construction of a line parallel to a line through a point not on the line
- Construction of the circumcircle of a triangle using patty paper
- Construction of the incircle of a triangle using patty paper
- Rules for congruence (SSS, SAS, ASA, AAS)
- ASS construction (two solutions)
- Proof of the six basic constructions using congruent triangles
- Formulas for the area of plane figures (*formula sheet to be provided*)
- Applications of the area of plane figures
- Pick's formula
- Classic proofs of the Pythagorean theorem
- Applications of the Pythagorean theorem
- Pythagorean triples
- Similarity
- Whirling golden triangle construction (including median construction)
- Formulas for surface area & volume (*formula sheet to be provided*)
- Applications of surface area & volume
- Effect of changes to linear (1-D) dimensions on 2-D and 3-D objects
- Basic spherical geometry properties
- Capture-Recapture problems
- Randomized Responses problems