Lesson plan

Mathematics 1_Stereometry

20 minutes presentation – an explanation of basic terms and figures in space

20 minutes – find images of objects, buildings or objects of everyday life, which resemble these figures

- cube
- cuboid
- three-sided prism
- four-sided pyramid
- cylinder
- rotation cone
- blunted pyramid
- blunted rotation cone
- cylinder and rotation cone together
- cuboid and pyramid together

Find an architectural construction which will combine at least 4 figures out of the above listed figures, then highlight the figures on the construction.

Mathematics 2_Mapping in the plane

10 minutes presentation, an explanation of basic terms of the mapping in the plane and congruent mapping

10 minutes – create, in a graphic editor, an object then map the object so that it meets these properties

a) No fixed points and it is not congruent mapping
b) No fixed points and it is congruent mapping
c) One fixed point and it is not congruent mapping
d) One fixed point and it is congruent mapping

10 minutes presentation- an explanation of the axial symmetry

10 minutes – on your laptops create a face according to the principles of axial symmetry (find a photo, divide it into 2 parts, then create a symmetrical image to each part and then match the halves)

- Find an architectural construction which is axial symmetrical from one angle (at least a part of the construction)