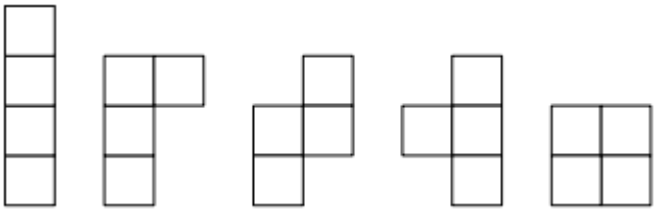
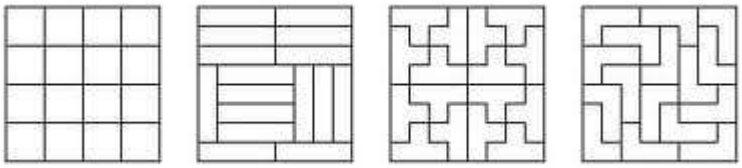
2. Results can be recorded on squared or spotted paper. All possible arrangements for four squares are illustrated below. ICT opportunities for manipulating these squares can be accessed also (see link below). [107]



ICT Opportunities

Interactive Tessellation

3. These shapes also tessellate so pupils can explore this and record their findings on squared paper making various patterns as shown below.



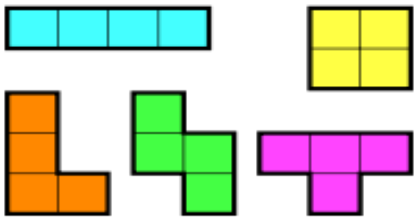
Why did you choose this combination of tetrominoes?
Describe the pattern they created.
How did you record this pattern on grid paper?
Arrange the tetrominoes in another way.
Share and compare your arrangements to others in the class.

Extension Activity: Tetrafit Problem

A tetromino comprises four squares joined edge to edge. This problem involves further investigation of tetrominoes:

Can this tetromino together with 15 copies of itself be used to cover an eight by eight chessboard? Investigate this claim and then share your findings.

The ICT link may be useful for pupils to explore this problem. [108]



ICT Opportunities

Tetrafit Problem

[107] Link to Interactive Tessellation: http://illuminations.nctm.org/ActivityDetail.aspx?ID=202
[108] Link to Tetrafit Problem: http://nrich.maths.org/814