

Appendix 1: Lesson Structure

Lesson 1-2: Use reference booklet

Page 2, teacher led loading A'cad, Explain the screen layout

Page 3-5, work through new commands, teacher led, explain and let them try it out.

Page 5 onwards, individual working, complete tasks 1 and 2 on the screen and save the final piece.

Need to check on pupils for understanding

Confirm that all commands have been taught, everything is within the booklet

Lesson 3: Teaching Ortho projection

Place into groups of 4

Using Nuffield books, P 36 go through and explain camera layout and 3rd angle, discuss with class.

Use book as reference each group given a 3D block, draw a side each and layout in order.

All group check and confirm layouts for each group

Lesson 4-5: Recap Ortho projection

Explain to use pages 2-5 for old commands to complete task 3.

Explain Pages 14-15 as guides for zooming in etc.

Page 7 explain and say they will print this out at the end.

Hand out A3 reference sheets of box to help.

Teacher led on new commands to help understanding, allow the rest to be done individually to learn and solve the problem. Own working up to Step 6.

Lesson 6-7: Dimensions and printing

Explain how to dimension the drawing, allow to complete this on their own, use reference sheet as a guide

If time do extension steps

Explain printing to whole class at the end.