Learning without Limits (LWL) – Door Plaque – Modern Technologies: Precision Making with Specialist Tools and Equipment			
Skill Set	Developing	Secure	Extending
Front & Design.	Simple design □ The drawing is neat but may only have partly completed	 10. More detailed design, e.g. modelled after a character from popular culture □ 11. The drawing is very neat, and has completed outlines □ 	19. Much more detailed design, e.g. an original creation, precisely drawn □ 20. The drawing is very neat and has completed outlines □
Using computer-based tools : Front & Back Plate Drawings using 2D Design.	outlines □ 3. Lines &/or shapes quite smooth □ 4. There are straight or curved lines, with student having remembered and selected some tools □ 5. Some boundary fill has been used for engraving but may not have been coloured black □ 6. Bitmaps were used but help was needed to vectorise images correctly. 7. The lines are mostly the correct colours for cutting and engraving □ 8. Text contour was used for the front plate with minor errors □	12. The lines and/or shapes are smooth & show increasing precision 13. There is a varied mixture of straight and curved lines used 14. A lot of black boundary fill has been used for engraving 15. Some bitmaps are Included, correctly vectorised 16. The lines are the correct colours for cutting and engraving 17. Text contour was used for the front plate with no errors	21. The lines are very smooth, showing fine precision □ 22. There is an attractive mixture of straight and curved lines used, possibly creating some patterning □ 23. Black boundary fill has been used for engraving to creative artistic effect □ 24. A variety of different bitmaps are edited and arranged to create an original drawing □ 25. The lines and/or shapes are the correct colours for cutting and engraving, with increased complexity □ 26. Text contour was used for multiple text plates with no errors □
Making using tools and equipment: Acrylic Rod Cutting, Finishing front and back face plates, test assembly Joining to Plates	9. Lots of support was needed 28. The rods are cut to within 5mm of the required length 29. The cut ends of the rod have a rough finish 30. The ends of the rods are sanded quite smooth 31. The front and back plate face edges of the ends have been sanded down 32. The rods fit loosely into the holes 33. The rods may only be joined loosely to the plates with Dichloromethane Solvent 34. Much Dichloromethane Solvent may be seen on the front of the plates 35. The student did not evaluate the quality of this work unless prompted	18. Little support was needed □ 36. The rods are cut to within 2mm of the required length □ 37. The cut ends of the rod have a clean finish but may be angled slightly □ 38. The ends of the rods are sanded and very smooth □ 39. The front and back plate face edges of the ends have been sanded down to a good finish □ 40. The rods fit quite snugly into the holes □ 41. The rods may only be joined loosely to the plates with Dichloromethane Solvent □ 42. Little Dichloromethane Solvent may be seen on the front of the plates □ 43. The student evaluated the quality of this work as they went along, to guarantee a high quality outcome □	27. No support needed – student worked independently □ 44. The rods are cut to precisely the required length □ 45. The cut ends of the rod have a clean finish and are cut cleanly at exactly 90° □ 46. The ends of the rods are smoothed to a shine with wet and dry paper □ 47. The front and back plate face edges have been sanded down to a very smooth finish □ 48. The rods fit precisely and firmly into the holes □ 49. The rods are joined strongly to the plates with Dichloromethane Solvent □ 50. No Dichloromethane Solvent on the front of the plates □ 51. The student made changes to the work to deal with quality issues which arose from their own evaluation of it as they worked □
Making using tools and equipment: Assembled Product - Overall Quality	52. The two plates are lined up roughly parallel □ 53. An eyelet has been stuck to the rear of the back plate, though the two pieces may not have been glued on the correct way up □ 54. The surfaces of the plastic are mostly clean despite some minor scratches, Dichloromethane Solvent/plastic residue, &/or teeth marks from vices □ 55. The rods fit but may stick out from or fall under the surface level of the text plate □ 56. Lots of support was needed from the teacher □ 57. The student did not check quality issues unless prompted □	58. The two plates are lined up almost exactly parallel □ 59. An eyelet has been applied to the rear of the back plate, assembled the correct way up □ 60. The surfaces of the plastic are mostly very clean □ 61. The rods fit and are nearly flush with the surface of the text plate □ 62. Little or no Support was needed from the teacher □ 63. The student evaluated the quality of this work as they went along, to guarantee a high quality outcome □	64. Multiple text plates are exactly parallel □ 65. An eyelet has been applied to the rear of the back plate, assembled the correct way up and precisely aligned both vertically & horizontally □ 66. The surfaces of the plastic are spotless □ 67. The rods fit and are seamless with the surface of the text plate □ 68. No support was needed from the teacher − worked independently □ 69. The student made changes to the work to deal with quality issues which arose from their own evaluation of it as they worked □