

Learning without Limits (LWL) – Engineering - Wind chimes

Skill Set	Developing	Secure	Extending
	All Developing students will have:	All Secure students will have:	All Extending students will have:
Health and Safety	1. Basic understanding of Health & Safety in the workshop <input type="checkbox"/>	2. Detailed understanding of Health & Safety in the workshop <input type="checkbox"/>	3. In depth understanding of Health & Safety in the workshop <input type="checkbox"/>
Design Ideas	4. Range of ideas, most designs annotated with some detail and some shading incorporating basic research skills <input type="checkbox"/>	5. Wide range of ideas with detailed annotation and all ideas shaded incorporating detailed research skills <input type="checkbox"/>	6. Wide range of creative and original ideas with detailed annotation and all ideas shaded accurately incorporating thorough research skills <input type="checkbox"/>
Development of ideas	7. Some detailed development with some detailed explanation of development incorporating basic research skills <input type="checkbox"/>	8. Detailed development with detailed explanation of development incorporating detailed research skills <input type="checkbox"/>	9. In depth development with an in depth explanation of development incorporating thorough research skills <input type="checkbox"/>
Final design	10. Most tools mentioned with most steps ordered. A sentence explaining the choice in some detail incorporating basic research skills. <input type="checkbox"/>	11. All tools are mentioned with all steps ordered. A detailed sentence explaining the choice incorporating detailed research skills <input type="checkbox"/>	12. All tools are correctly mentioned with all steps correctly ordered showing understanding of manufacturing. An in depth sentence explaining the choice incorporating thorough research skills <input type="checkbox"/>
Making – Windcatcher	13. Interesting design. <input type="checkbox"/> 16. Good detail and/or patterning. <input type="checkbox"/> 19. Edges smooth. <input type="checkbox"/>	14. Original design. <input type="checkbox"/> 17. Detail and/or patterning is accurately produced. <input type="checkbox"/> 20. All edges and surfaces are smooth. <input type="checkbox"/>	15. Interesting and creative design <input type="checkbox"/> 18. Detail and/or patterning is produced with precision <input type="checkbox"/> 21. All edges and surfaces are smooth and produced to a high standard with consideration of safety. <input type="checkbox"/>
Making – chimes	22. Tubes are different lengths. <input type="checkbox"/> 25. Ends of tubes are uneven and countersunk. <input type="checkbox"/> 28. Finished with wet & dry paper. <input type="checkbox"/>	23. Tubes are almost the correct lengths. <input type="checkbox"/> 26. Ends of tubes are level and countersunk. <input type="checkbox"/> 29. Good standard of finish with wet & dry paper. <input type="checkbox"/>	24. Tubes are correct lengths. <input type="checkbox"/> 27. Ends of tubes are level and countersunk demonstrating competent use of tools <input type="checkbox"/> 30. A high standard of finish with wet & dry paper. <input type="checkbox"/>
Making support block	31. Interesting design. <input type="checkbox"/> 34. Unevenly spaced holes. <input type="checkbox"/> 37. Some pencil marks visible. <input type="checkbox"/> 40. Rounded corners, smooth edges. <input type="checkbox"/>	32. Original design. <input type="checkbox"/> 35. Evenly spaced holes. <input type="checkbox"/> 38. No visible pencil marks. <input type="checkbox"/> 41. Patterned sides, rounded corners, smooth edges. <input type="checkbox"/>	33. Interesting and creative design <input type="checkbox"/> 36. Accurately spaced holes. <input type="checkbox"/> 39. No visible pencil marks or rough edges. <input type="checkbox"/> 42. Patterned sides, rounded corners, smooth edges incorporated using a wide range of tools competently <input type="checkbox"/>
Selection and use of tools	43. A range of hand tools and equipment used with some skill and accuracy <input type="checkbox"/> 46. Some support required from the teacher <input type="checkbox"/>	44. A wide range of tools and equipment used skilfully and accurately <input type="checkbox"/> 47. Little support required from the teacher <input type="checkbox"/>	45. A comprehensive range of tools and equipment used skilfully, accurately and competently <input type="checkbox"/> 48. No support required from the teacher. Students are able to support others and demonstrate <input type="checkbox"/>
Evaluation	49. Some support and guidance required to complete evaluation – few prompts and reminders about processes and skills used were required <input type="checkbox"/>	50. Little support and guidance required to complete evaluation –students were able to recall most processes and skills used in the task <input type="checkbox"/>	51. No support and guidance required to complete evaluation – students were able to recall all processes and skills used in the task <input type="checkbox"/>

