Higher GCSE Topics and Hegarty Tasks

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|  | Title | 106 content points  | Hegarty Maths Tasks |
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| 2. Negative numbers;  | 41, 42, 43 |
| 3. Prime factor decomposition;  | 29 |
| 4. HCF and LCM from Venn diagrams  | 32 |
| 5. Rounding and approximations | 130, 132 |
| 6. Bounds: error intervals and UB/LB of calculations  | 774-777, 138, 139 |
| 2 | Indices and Standard Form | 7. Indices: positive, negative, fractional, negative fractions, reciprocals  | 102-110 |
| 8. Standard form;  | 123-128 |
| 3 | Expressions 1 | 9. Simplifying expressions;  | 158-159 |
| 10. Expanding and factorise single brackets;  | 160-161 |
| 11. Expanding and factorise double brackets: incl. difference of two squares  | 223-224 |
| 12. Factorise quadratics with $2x^{2}, 6x^{2},7x^{2}$ etc.  | 226-227 |
| 4 | Equations 1 | 13. Form and solve linear equations;  | 184-187 |
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| 5 | Charts and Averages | 16. Sampling: random, systematic and stratified  | 394-398 |
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| 29. Surface area of prisms | 585 |
| 7 | Fractions, Decimals and Percentages 1 | 30. Fractions: add, subtract, multiply and divide  | 63, 66-69 |
| 31. Find fractions of an amount  | 77, 80 |
| 32. Find percentages of an amount  | 98, 89 |
| 33. Percentage change, compound interest and depreciation  | 91,92, 760 |
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| 9 | Shapes and Angles | 41. Properties of quadrilaterals;  | 824-826 |
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| 44. Angles on parallel lines (corresponding, alternate and vertically opposite)  | 480-483, 488-491 |
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