Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section D18: Energy Resources and Electricity Generation** |
| Specification | Resources | Assessment |
| 4.16 describe the energy transfers involved in generating electricity using: * wind
* water
* geothermal resources
* solar heating systems
* solar cells
* fossil fuels
* nuclear power

4.17 describe the advantages and disadvantages of methods of largescale electricity production from various renewable and non-renewable resources. | Video: Section 1 – General Physics – Lesson 9 – Energy resourcesPowerpoint: Physics 9 – Energy ResourcesTextbook:Chapter 18 – Energy Resources and Electricity GenerationPage 151 – Non-renewable energy resources Page 153 – Renewable energy resourcesPage 154 – Hydroelectric powerPage 154 – Tidal powerPage 155 – Wave energyPage 155 – Wind powerPage 155 – Solar powerPage 157 – Geothermal energyPage 157 – Supply and demandPage 158 – CostPage 159 – End of Chapter ChecklistEdexcel iGCSE Physics Student Checklist Section D18.docDVD Revision check list | TextbookPage 159 – Questions 1 to 7Chapter D18 Textbook Answers (PDF)Page 160 – 161; End of Section D – Questions 1 to 6End of Section D textbook answers.pdfDVD Multiple choice testTalking paper – Edexcel Physics Section D18 – Energy resources and Electricity GenerationSection D18 Exam Question –. (pdf)Section D18 Exam Question – Mark Scheme. (pdf) |

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Physics Student Book - Pearson

DVD Video Clips – see resource DVD in textbook.