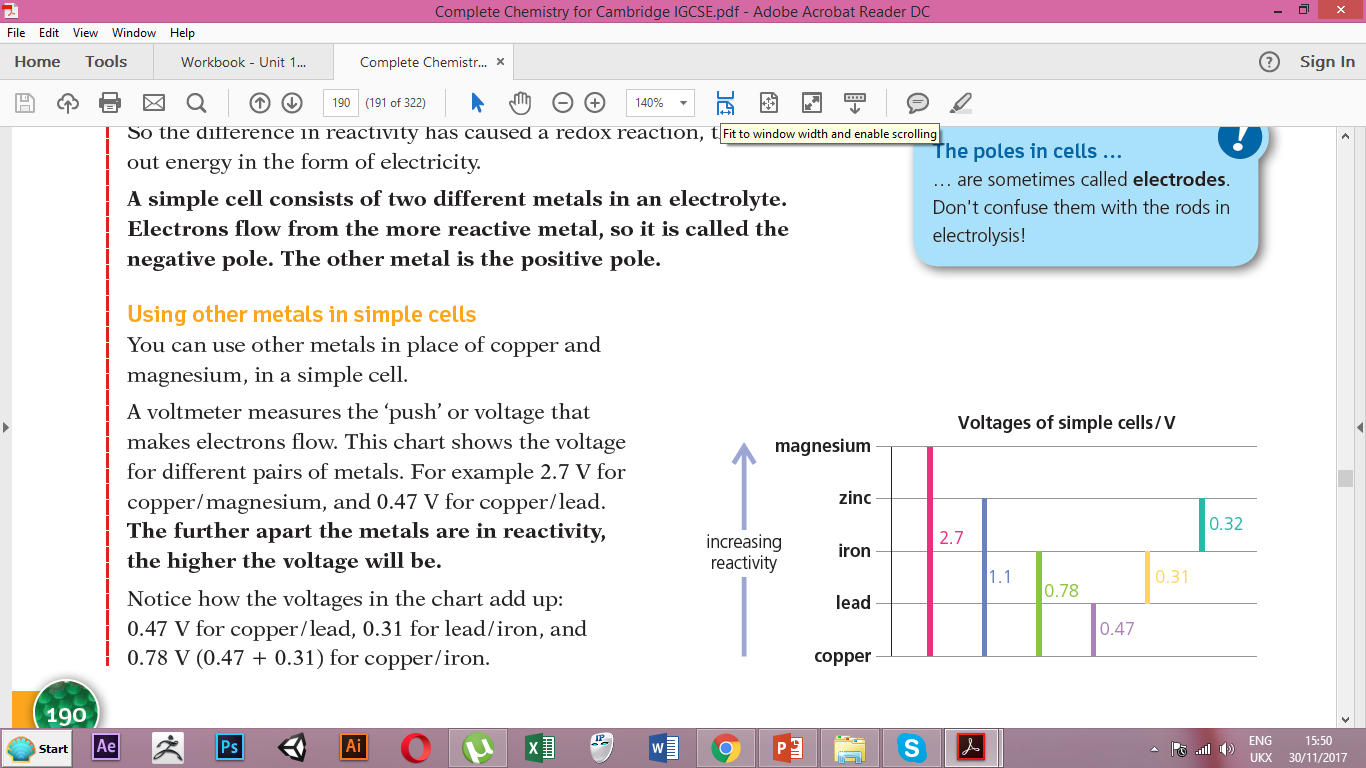
1. A copper rod and an iron rod stand in an electrolyte. If you connect a bulb between them, it will light dimly.  
   **a** Why does the current flow?  
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   **b** Which acts as the positive electrode: copper or iron?  
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   **c** Suggest two metals you could use to get a brighter light.  
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2. From the chart, see if you can work out the voltage for a cell that uses magnesium and zinc.  
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3. **a** Steel for cars is galvanised. What does that mean?  
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   **b** Explain how this protects the steel.  
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4. Aluminium is more reactive than iron. But unlike iron, we do not need to protect it from corrosion. Why not?  
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5. **a** Write a word equation for the thermite reaction.  
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   **b** See if you can give two reasons why the aluminium is powdered, for this reaction.  
   \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_