

Look at the tables below, which show the electricity used each month during 2009 in England and in South Africa.

Electricity is measured in gigawatt hours.

## South Africa 2009

Month	Jan	Feb	March	April	May	June	
Electricity	16592	15527	17351	16645	18280	18515	YEAR TOTAL
Month	July	August	Sept	Oct	Nov	Dec	
Electricity	19706	19007	17999	18527	18025	17707	<b>213881</b>

## England 2009

Month	Jan	Feb	March	April	May	June	
Electricity	32658	29781	29660	25947	25319	24670	YEAR TOTAL
Month	July	August	Sept	Oct	Nov	Dec	
Electricity	25079	24738	25352	27551	28603	31128	<b>330486</b>

- Use the information in the tables to write a couple of sentences about any patterns you can see in the numbers for how much electricity is used in each of the two countries.
- Draw two line graphs to show the use of electricity in England and South Africa in 2009. Comment on any patterns you can observe from the graphs.
- For each country, in which month was the most electricity used? Discuss possible reasons for this.
- For each country calculate the difference between the most electricity used in a month and the least used. What do we call this number?
- Calculate the mean monthly usage of electricity for England and South Africa in 2009. Explain how you did this. Comment on your findings.
- Do you think the amount of electricity used in each country by 2012 will be the same, have gone up or gone down? Try to give reasons with your answer.
- Given the population estimates in 2009 were 61.792 million in England and 49.32 million in South Africa can you work out the electricity usage per capita – i.e. per person?

In the table below are some results from *CensusAtSchool* in South Africa (pilot) and a graph showing the power supply to schools there. From the data in the table draw a graph to show the *CensusAtSchool* findings and comment on them. Try to think of some reasons for these findings. How high a priority do you think it is to get electricity to the schools? How do you think the South African government is trying to do this?

## Percentage of children having access to services

Source *CensusAtSchool* South Africa Pilot July 2001

SERVICE	Water	Radio	TV	Computer	Internet	Mobile Phone
Children with this service	45.3%	91.6%	73.1%	15.3%	7.9%	3.7%

## South Africa School Power Supplies

