3.2 Listening

preparing for a lecture • predicting lecture content • making notes

A Study the slides from a lecture about electric circuits.

1 What do you expect to learn in this lecture? Make a list of points.
2 Write down key words you expect to hear.
3 How are you going to prepare for this lecture?

B Listen to Part 1 of the lecture.

1 What exactly is the lecturer going to talk about today? Tick the topic(s) you heard.
- Ohm's law and simple electric circuits ____
- Ohm's law and complicated electric circuits ____
- Exceptions to Ohm's law ____

2 What reason does the lecturer give for talking about this topic?
3 What is the best way to organize notes for this lecture?

C Listen to Part 2 of the lecture.

1 What does the lecturer say about the history behind Ohm's law?
2 What is Ohm's law?
3 What analogy does the lecturer use to illustrate the law?
4 What do you expect to hear in the next part of the lecture?

D Listen to Part 3 of the lecture.

1 How could you write notes for this part?
2 What is the quantity discussed and how is it defined?

E Listen to Part 4 of the lecture.

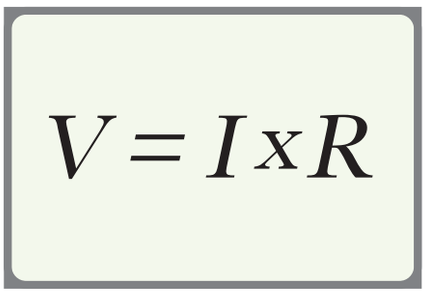
1 Check your definition of the quantity discussed.
2 What is the research task?

F Listen and say whether these sentences are true or false according to the lecture.

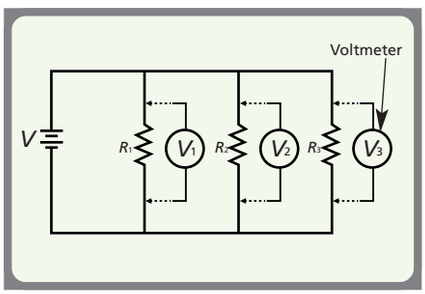
1 ____ 2 ____ 3 ____
4 ____ 5 ____

G What does Slide 5 show? Discuss:

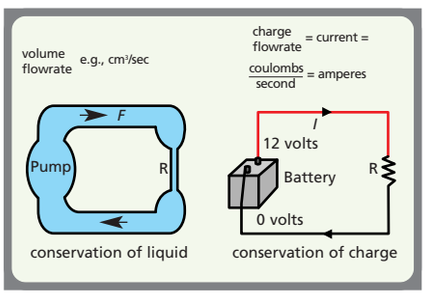
1 the missing units and symbols
2 the missing numbers for the quantities (assuming they are from a circuit that obeys Ohm's law)



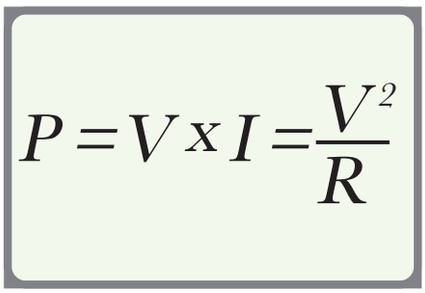
Slide 1: Ohm's law



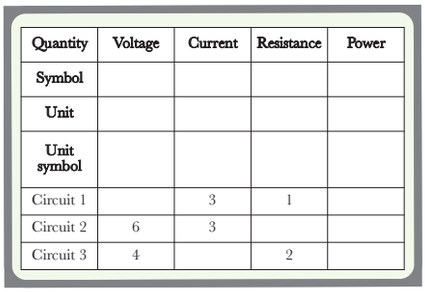
Slide 2: An electrical circuit



Slide 3: Current law and flow rate



Slide 4: Joule's law



Quantity	Voltage	Current	Resistance	Power
Symbol				
Unit				
Unit symbol				
Circuit 1		3	1	
Circuit 2	6	3		
Circuit 3	4		2	

Slide 5: Quantities, units symbols and examples of Ohm's law and Joule's law