**Why do metals conduct electricity**

Did you know that metals act as conductors, that is they conduct electricity?

Watch this [video](https://www.pbslearningmedia.org/resource/nvtoe-sci-metalconduct/wgbh-nova-treasures-of-the-earth-why-do-metals-conduct-electricity/) to find out how this happens. Then answer the questions.

* What happens when a voltage is applied to metal?
* When electrons “hop” from one atom to another, what happens to the first atom?
* What is the role of electrons in transmitting electricity?

Do this matching exercise

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| --- | --- |
| 1. electrons
2. conduct
3. conductor
4. core
5. arrange
6. row
7. column
8. direction
9. hop
10. current
11. apply
 | * 1. μεταπηδάω
	2. κατεύθυνση
	3. σειρά
	4. στήλη
	5. ηλεκτρόνια
	6. μεταφέρω, άγω, οδηγώ
	7. αγωγός (ρεύματος)
	8. εφαρμόζω
	9. ρεύμα
	10. τακτοποιώ, βάζω σε ορισμένη διάταξη
	11. πυρήνας
 |

**After watching**

* What types of materials conduct electricity?
* What are some examples of electrical insulators—materials that do not conduct electricity?
* Do you think all metals conduct electricity with the same efficiency? Provide some examples for your answer.

Ιf you have any unknown words, look them up [here.](https://www.wordreference.com/engr/)

<https://www.pbslearningmedia.org/resource/nvtoe-sci-metalconduct/wgbh-nova-treasures-of-the-earth-why-do-metals-conduct-electricity/support-materials/>