

The Thermoelectric Effect <https://youtu.be/06waiEeXDGo>

I True or false?

Circle the correct answer and justify if it's false

- (T)/F 1 The speaker believed that connecting a wire to a battery would trap the current in a loop.
True – As a child, the speaker hoped to catch the current in a loop by quickly connecting the wire ends.
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- (T)/F 2 The thermoelectric effect can create a voltage from a temperature difference.
True – A temperature difference can create a voltage, which is part of the thermoelectric effect.
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- (T)/F 3 The speaker explains that heating one end of a wire causes electrons to move apart.
True – Heating one end causes electrons to move apart due to increased thermal energy.
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- T/(F) 4 The SEEBECK effect is pronounced in all metals equally.
False – The SEEBECK effect is more pronounced in some metals and less in others.
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- T/(F) 5 A thermocouple is created by joining two similar metals together.
False – A thermocouple is created by joining two dissimilar metals together.
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- T/(F) 6 The speaker uses a voltmeter to show that a small current is flowing in the wire loop.
False – The speaker uses a multimeter in ammeter mode to show a small current flowing in the loop.
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- (T)/F 7 The PELTIER effect is the opposite of the SEEBECK effect.
True – It states that applying a current between dissimilar metals can create a change in temperature.
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II Translate into English

- ◇ Fil électrique : wire
- ◇ Alliage : alloy
- ◇ Chauffer : to heat (up)
- ◇ Refroidir : to cool (down)
- ◇ Dans le sens des aiguilles d'une montre : clockwise
- ◇ Un chauffe-eau : a boiler
- ◇ Une coupure de courant : a power cut