



First Lego League Curriculum - Ontario

Questions

Question 1 Science	Fun fact, motors and generators are the same thing, just backwards. Using the “Energy In, Energy Out” activity as a guide, explain the energy transformations that took place when you connected two motors directly to each other.
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Question 2 Science	When you span the motor exactly around once, how far did the other motor spin? Explain why they weren’t identical. Use energy loss in your answer.
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Question 3 Science	Which would have more energy loss, a hybrid car that uses a gas motor to charge a battery, or a pure electric car?
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Question 3 Science	Calculate total energy lost in program number one if all the devices wasted half the energy they used.
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Question 5 Science	Why do you think that the motors use the most amount of energy? Draw a chart of where you think the 100J of energy went to.



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Electrical Energy (to motors)

