DIY Energy Robot

Project and Grading Rubric

Created by The Knitted Apple
DIY Energy Robots

This robot project is a fun way to assess understanding of the different forms of energy. Students will complete their own "DIY" (do it yourself) project by designing a robot that produces at least three forms of energy.

You can finish this activity in one or two class periods, depending on the time you have available. Completing the planning page will help students focus on the specific features of their robots and will allow you to assess understanding before beginning the final project.

I provided two options for the final project. The first option has room for the robot drawing and paragraph all on one page. The second option is a half-sheet of paper for students to draw their robot. The paragraph can be written on notebook paper or typed on the computer. This allows for more room depending on the amount of information you want students to include. An optional grading rubric is included.

If you have any questions, please feel free to contact me at www.theknittedapple@gmail.com.

Thank you!
-Krista
My robot's name is Herbert, but I just call him Herb. He produces sound energy when he says good morning to me. Herb uses thermal energy to make pancakes and hot chocolate, which he brings to me using mechanical energy. When Herb is happy his blue light flashes and produces light energy. Herb is the best robot in the world!
The robot you create must produce at least three forms of energy. Circle the forms of energy your robot will produce. Then explain the specific feature of your robot for each form of energy you circled.

- Electrical ______________________
  ________________________________
  ________________________________

- Sound________________________
  ________________________________
  ________________________________

- Light ________________________
  ________________________________
  ________________________________

- Mechanical____________________
  ________________________________
  ________________________________

- Thermal (Heat)__________________
  ________________________________
  ________________________________

Name ___________________

Draw a sketch of your robot in this box. Label the forms of energy.
Draw your robot inside the box. Make this robot your best work. It should be colorful and detailed.

Write a paragraph describing your robot. Explain the specific features of your robot including the three forms of energy your robot produces. Use correct capitalization, punctuation, and sentence structure.
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Planning Page
Three forms of energy circled and specific features of robot explained ____/20

Sketch is detailed and features of the robot (forms of energy) are labeled ____/20

Project Page
Drawing of robot is colorful and includes details ____/20

Paragraph explains features of robot using the three forms of energy chosen on planning page ____/20

Paragraph includes appropriate punctuation, capitalization, and sentence structure ____/20

Comments (If needed):

Total ____/100
Thank you for downloading a product from my store!

I would love to hear how your students liked the Energy Robot Project. I value your opinion and use your feedback to plan new activities and lessons!

You can leave feedback for this product by clicking the link below. It will take you back to the Energy Robot product page on Teachers Pay Teachers. You may need to log on to Teachers Pay Teachers first before you will be able to leave a review. Thank you so much!!

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Mechanical clip art
www.etsy.com/shop/HappyPlaceArt

Robot clip art from cover:
www.etsy.com/shop/MareeTruelove

Black crosshatch background:
Sonya deHart Design

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