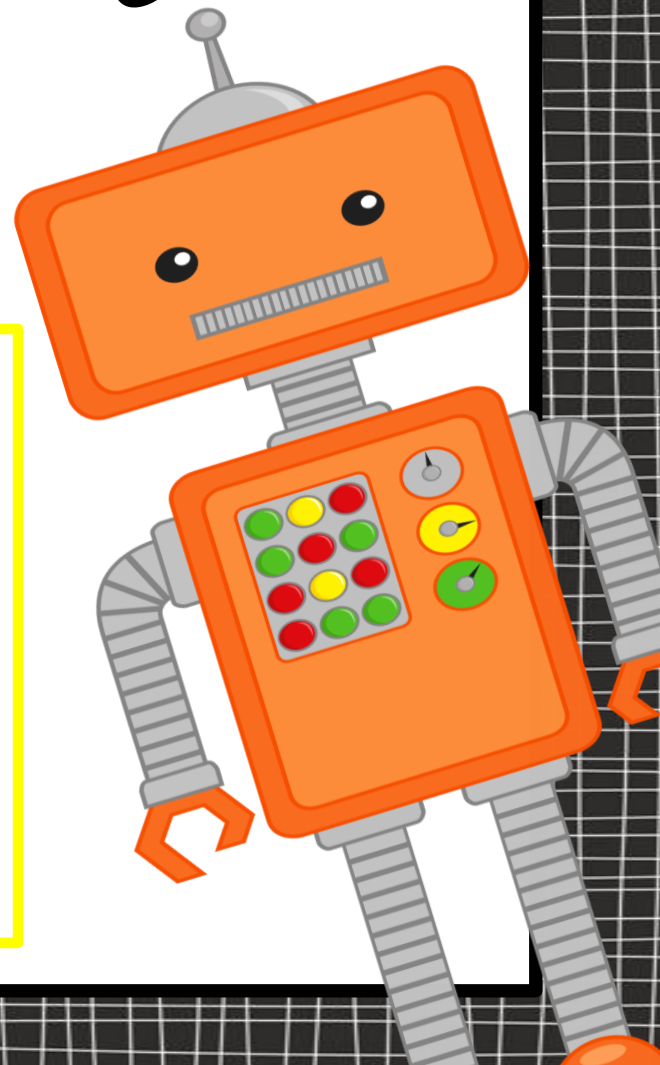
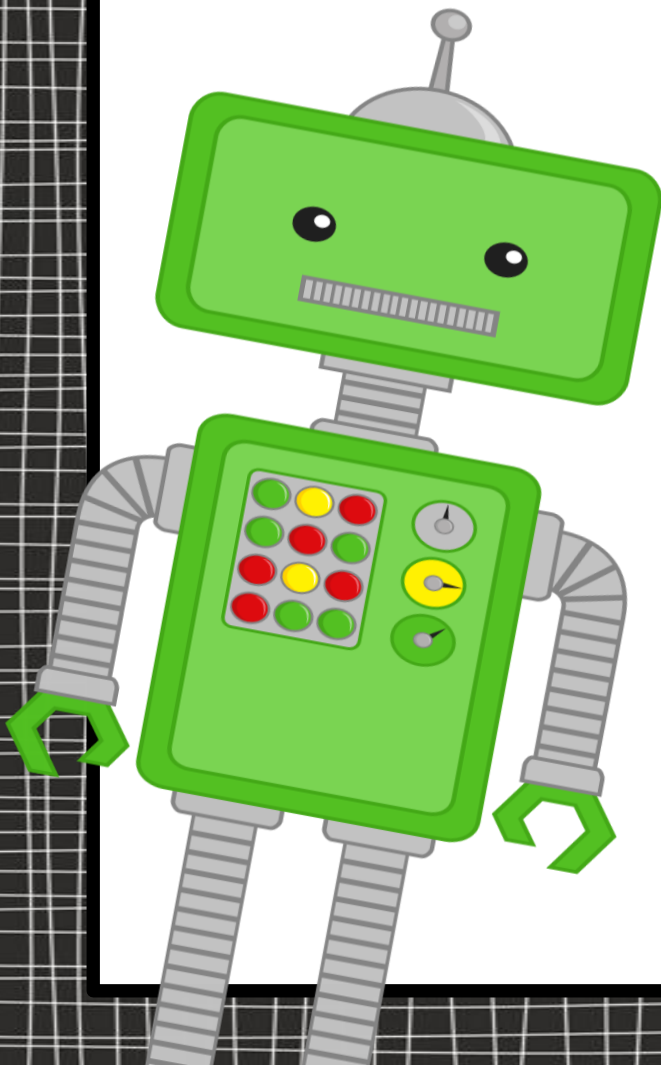


# DIY Energy Robot

Project and  
Grading Rubric



Created by  
The Knitted Apple



# DIY Energy Robots

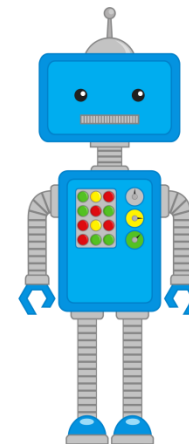
This robot project is a fun way to assess understanding of the different forms of energy. Students will complete their own "DIY" (do it yourself) project by designing a robot that produces at least three forms of energy.

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 [theknittedapple@gmail.com](mailto:theknittedapple@gmail.com).

Thank you!  
-Krista



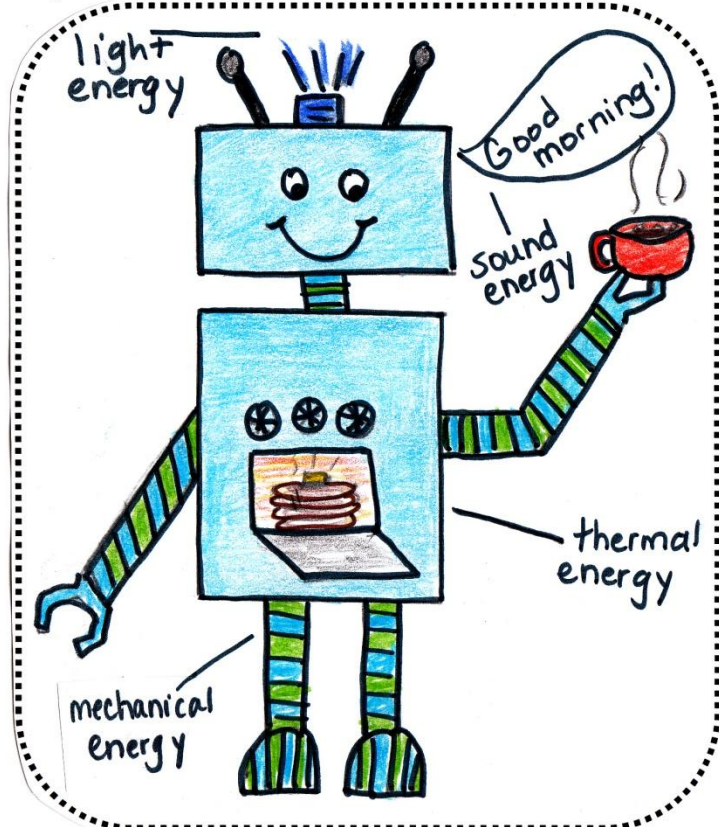


# Example of finished project

## DIY Robot Project Page

Name \_\_\_\_\_

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.



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!

Name \_\_\_\_\_



# My DIY Robot Planning Page



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 \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

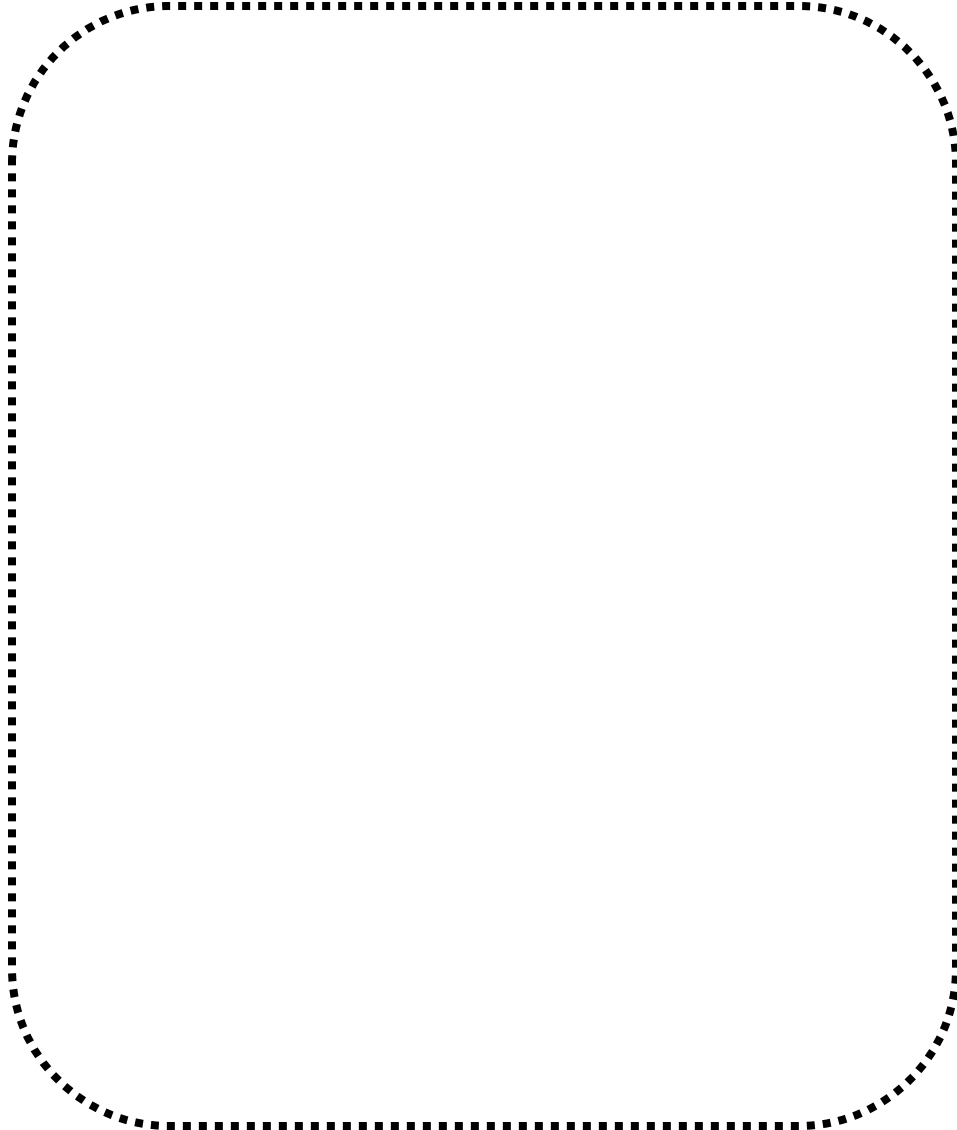
Thermal (Heat) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Draw a sketch of your robot in this box.  
Label the forms of energy.

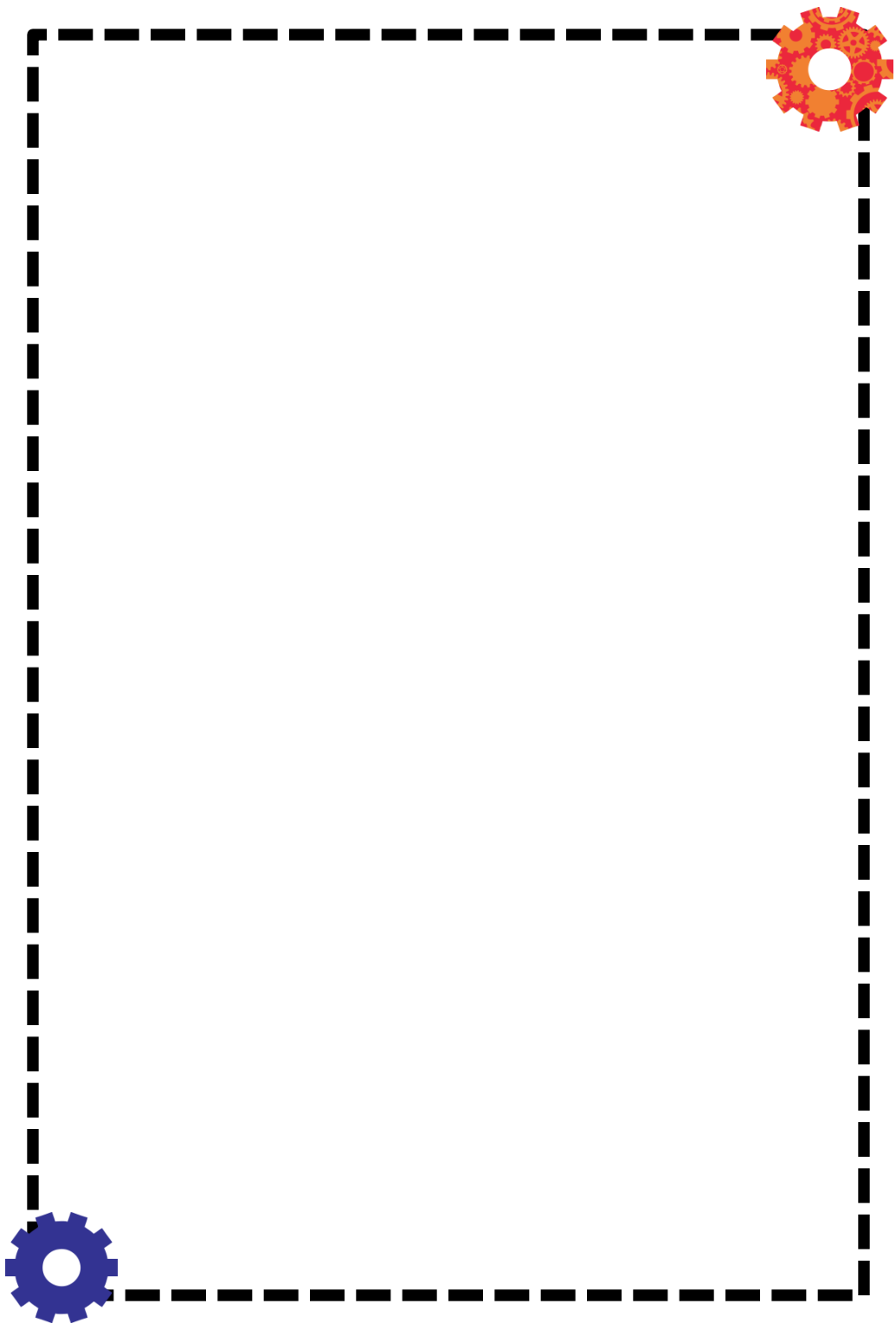
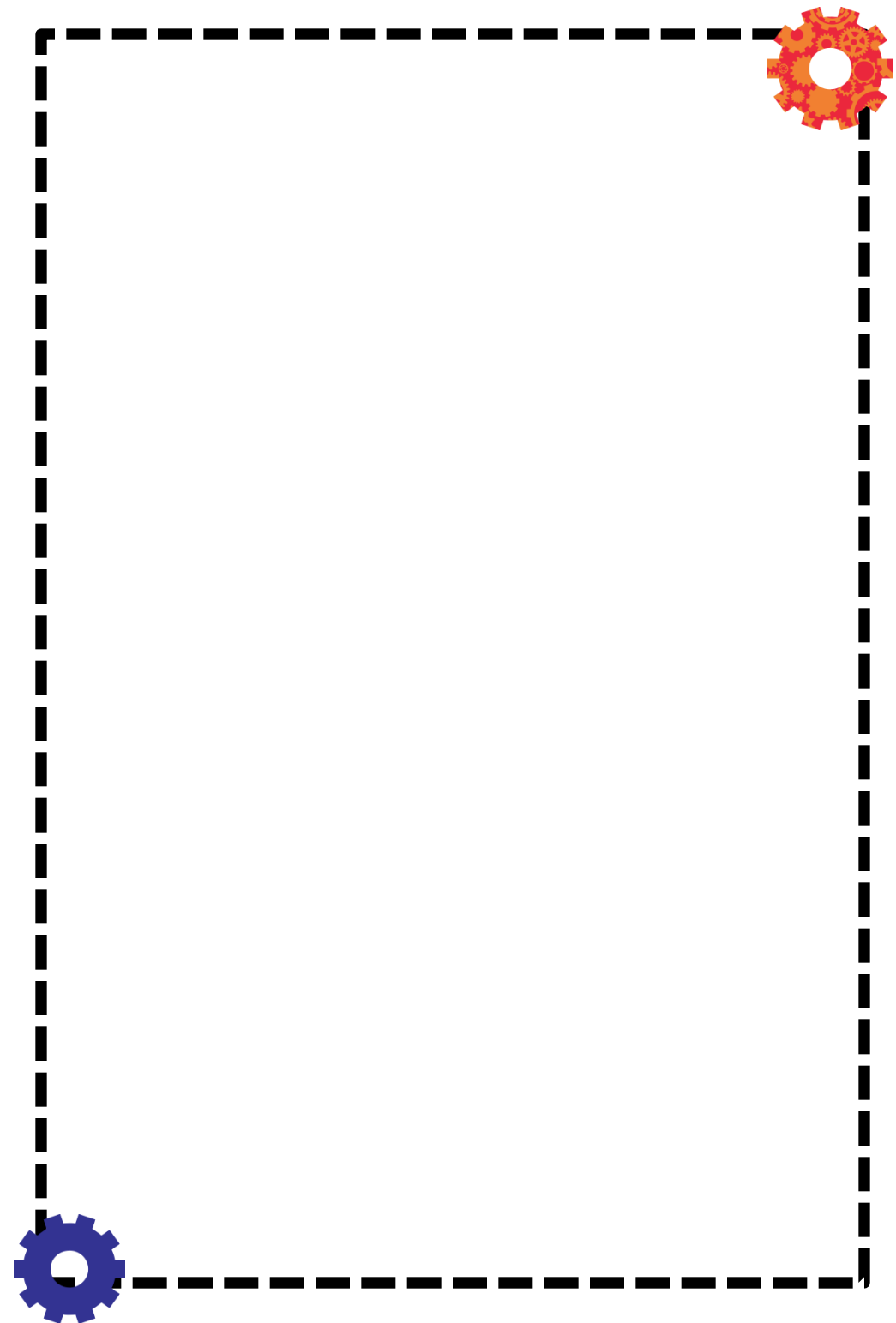
# DIY Robot Project Page

Name \_\_\_\_\_

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.



Handwriting practice lines consisting of ten horizontal lines, each with a central dashed line and small square markers at the ends.



# DIY Energy Robot Grading Rubric



Name \_\_\_\_\_

## 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

# DIY Energy Robot Grading Rubric



Name \_\_\_\_\_

## 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



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Black crosshatch background:

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