

# WRITING PROMPT

5

## MODELS AND DESIGNS

### Prompt

*Draw a diagram with labels to show how the wheel, axle and bearing work together to provide mobility. Write an explanation of the function of each of these parts. Describe how they work together to become a system that provides mobility.*

### Word Walls

*system  
wheel  
axle  
bearing  
rotate  
hub  
friction  
propelled  
design  
fraction*

#### Writing Standards

- E2a – Report Writing
- E2b – Response to Literature
- E2c – Narrative Account
- E2d – Narrative Procedure

#### Science Standards

- S1 Physical Sciences Concepts
- S2 Life Sciences Concepts
- S3 Earth and Space Sciences Concepts
- S7 Scientific Communication

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## MODELS AND DESIGNS

### Prompt

*Describe two black boxes you have encountered in your life. Explain why they remain black boxes.*

### Word Walls

*black box  
model  
representation  
physical model  
conceptual model  
design  
system  
characteristics*

#### Writing Standards

- E2a – Report Writing
- E2b – Response to Literature
- E2c – Narrative Account
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#### Science Standards

- S1 Physical Sciences Concepts
- S2 Life Sciences Concepts
- S3 Earth and Space Sciences Concepts
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# QUICK WRITES

GRADE 5

## Models and Design

### Lesson No.

1 - 1

*Give examples of models and how each is used.*

1 - 2

*What questions did you ask yourself in figuring out how the drought stopper was put together?*

2 - 1

*Your job was to build a humdinger. Describe the role of each person in your group.*

2 - 2

*Explain how you work as a scientist. What skills did you use?*

3 - 1

Note to Teachers: Before supplies are passed out.  
*What do you think you will need to make your go-cart go?*

3 - 2

*Be a design engineer. What new gadget would you make? Explain why you would make this gadget.*

# WORD WALL

## Models and Designs

black box	lever	engineer
model	physical model	friction
atom	switch	hub
consensus	amplify	traction
representation	motor shaft	wheel
results	resistance	advance
senses	axle	cargo
system	bearing	progress
conceptual model	design	propelled
rotate	technology	variable
challenge	characteristics	feature