

Energy Consumption- Hi,Lo- Where Does It Go?

This simple activity would be a nice follow up of “Electricity- Watts, Wire, And Watt It Costs”. Use it to see how well your students can classify the power consumption of 21 common household items with this handout.

On a sheet of paper have your students write the name of each of the 21 items below. (This is also available as a handout- see last page)

Classify each as either “*Low*” (use less than 100 Watts), “*Medium*” (100-500 Watts), or “*High*” (more than 500 Watts).

LOW- 1 Watt	1. telephone
HIGH- 990 Watts	2. popcorn popper
MEDIUM- 250 Watts	3. drill
HIGH- 1,020 Watts	4. coffee maker
HIGH- 1,500 Watts	5. electric skillet
MEDIUM- 100 Watts	6. 100 watt bulb
HIGH- 1,320 Watts	7. vacuum cleaner
	8. desktop computer-large monitor
	9. desktop computer-flat screen
	10. laptop computer

If your students need help, tell them that four items on the list are “Low”, nine are “Medium, and eight are “High”. If they need *less* help, have them guess the actual Wattages.

1. telephone
2. popcorn popper
3. drill
4. coffee maker
5. electric skillet
6. 100 watt bulb
7. vacuum cleaner
8. desktop computer-large monitor
9. desktop computer-flat screen
10. laptop computer
11. garage door opener
12. refrigerator
13. waffle iron
14. air compressor
15. crock pot-high setting
16. mixer
17. treadmill
18. television (old cathode tube model)
19. dvd player
20. toaster oven
21. microwave oven

ANSWERS- (also available on PowerPoint- see last page)

LOW	1. telephone
HIGH	2. popcorn popper
MEDIUM	3. drill
HIGH	4. coffee maker
HIGH	5. electric skillet
MEDIUM	6. 100 watt bulb
HIGH	7. vacuum cleaner
MEDIUM	8. desktop computer-large monitor
LOW	9. desktop computer-flat screen
LOW	10. laptop computer
MEDIUM	11. garage door opener
MEDIUM	12. refrigerator
MEDIUM	13. waffle iron
HIGH	14. air compressor
MEDIUM	15. crock pot-high setting
MEDIUM	16. mixer
HIGH	17. treadmill
MEDIUM	18. television (old cathode tube model)
LOW	19. dvd player
HIGH	20. toaster oven
HIGH	21. microwave oven

Come back and visit InteractiveScienceTeacher.com to upgrade this lesson with:

PowerPoint- lead your students through the lesson click-by-click

	1. telephone
	2. popcorn popper
	3. drill
	4. coffee maker
	5. electric skillet
	6. 100 watt bulb
	7. vacuum cleaner
	8. desktop computer-large monitor
	9. desktop computer-flat screen
	10. laptop computer

LOW- 1 Watt	1. telephone
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	7. vacuum cleaner
	8. desktop computer-large monitor
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	10. laptop computer

LOW- 1 Watt	1. telephone
HIGH- 990 Watts	2. popcorn popper
MEDIUM- 250 Watts	3. drill
HIGH- 1,020 Watts	4. coffee maker
HIGH- 1,500 Watts	5. electric skillet
MEDIUM- 100 Watts	6. 100 watt bulb
HIGH- 1,320 Watts	7. vacuum cleaner
LOW- 80 Watts	8. desktop computer-large monitor
LOW- 80 Watts	9. desktop computer-flat screen
LOW- 20 Watts	10. laptop computer

Student Handout

Answers-Handout

Energy Consumption

Directions: Each item below uses electricity. Classify each as either "Low" (less than 100 Watts), "Medium" (100-500 Watts), or "High" (more than 500 Watts).

Four items are "Low", nine are "Medium", and eight are "High".

_____	1. telephone
_____	2. popcorn popper
_____	3. drill
_____	4. coffee maker
_____	5. electric skillet
_____	6. 100 watt bulb
_____	7. vacuum cleaner
_____	8. desktop computer-large monitor
_____	9. desktop computer-flat screen
_____	10. laptop computer
_____	11. garage door opener
_____	12. refrigerator
_____	13. waffle iron
_____	14. air compressor
_____	15. crock pot-high setting
_____	16. mixer
_____	17. treadmill
_____	18. television (old cathode tube model)
_____	19. dvd player
_____	20. toaster oven
_____	21. microwave oven

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LOW- 1 Watt	1. telephone
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MEDIUM- 250 Watts	3. drill
HIGH- 1,020 Watts	4. coffee maker
HIGH- 1,500 Watts	5. electric skillet
MEDIUM- 100 Watts	6. 100 watt bulb
HIGH- 1,320 Watts	7. vacuum cleaner
MEDIUM- 100 Watts	8. desktop computer-large monitor
LOW- 80 Watts	9. desktop computer-flat screen
LOW- 20 Watts	10. laptop computer
MEDIUM- 450 Watts	11. garage door opener
MEDIUM- 110 Watts	12. refrigerator
MEDIUM- 700 Watts	13. waffle iron
HIGH- 1,700 Watts	14. air compressor
MEDIUM- 300 Watts	15. crock pot-high setting
MEDIUM- 150 Watts	16. mixer
HIGH- 650 Watts	17. treadmill
MEDIUM- 150 Watts	18. television (old cathode tube model)
LOW- 10 Watts	19. dvd player
HIGH- 1,500 Watts	20. toaster oven
HIGH- 1,500 Watts	21. microwave oven

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