## **DC MOTOR PROJECT**

**The challenge:** To design and construct a DC motor to

convert electricity into mechanical energy.

Options: 1. Build and construct a DC motor from

your own design.

2. Build and construct a DC motor from a

design provided.

<u>Criteria for DC motor evaluation:</u> Does it work?

How well does it spin?

Does it look professional?

Is it well constructed?

Are the connections soldered

properly?

Is it creative?

Are there new ideas, extra

components?

How much effort was applied?

Was time used well (time on

task)?

Were instructions properly

followed?

Each of the above items is worth 10 points for a total value of 100 points.

## **Criteria for DC motor design brief evaluation:**

Is the problem clearly stated?

Does it show the design process?

Does it clearly show the final design?

Does it show the tools, machines and process necessary to recreate the design?

Is the design brief professional (effort, neatness, typed, etc.)?

Each of the above items is worth 10 points for a total value of 50 points.

NAME:	_		
DATE:	<u>—</u>		
Criteria for DC motor evaluation:			
	PTS	STUDENT	TEACHER
Does it work?	10		
How well does it spin?	10		
Does it look professional?	10		
It well constructed?	10		
Are the connections soldered properly?	10		
Is it creative?	10		
Are there new ideas, extra components?	10		
How much effort was applied?	10		
Was time used well (time on task)?	10		
Were instructions properly followed?	10		
EXTRA CREDIT			
TOTAL POINTS			
Criteria for DC motor design brief evalu	ıation:		
	PTS	STUDENT	TEACHER
Is the problem clearly stated?	10		
Does it show the design process?	10		
Does it clearly show the final design?	10		
Does it show the tools, machines and Processes necessary to recreate the design?	10		
Is the design brief professional (effort, neatness, typed, etc.)?	10		
EXTRA CREDIT			
TOTAL POINTS			