

# DKE Scientific Method – Judge’s Rubric

*Scale: 0-10 NEEDS IMPROVING 11-13 FAIR 14-15 GOOD 16-18 SUPERIOR 19-20 OUTSTANDING*

<i>Description of Trait</i>		<i>Comments</i>
<b>INNOVATIVE IDEA</b>		
/20	Original idea -- not a "typically" repeated experiment	
	Demonstrates New or Improved ways of communicating scientific ideas	
	Ingenious use of materials?	
	Original mode of carrying out exhibit.	
<b>SCIENTIFIC PROCESS</b>		
/20	Is there a problem, hypothesis, procedure, results, & conclusion ?	
	Procedure is clear step by step process.	
	Graphs/data tables are clear and show results	
	Is there adequate data to support the conclusion?	
<b>UNDERSTANDING</b>		
/20	Does the student understand the scientific principles involve?	
	Is the student aware of other approaches or theories concerning this project?	
	Is it evident that there is research information beyond what is already known?	
	Students ability to answer questions completely.	
<b>DISPLAY</b>		
/20	Clear labels/appropriate layout	
	Correct spelling & punctuation	
	Eye Appeal?	
	Craftsmanship/effort applied	
<b>PRESENTATION</b>		
/20	Students eye contact	
	Student uses a clear voice and correct, precise pronunciation of terms so that all audience members can hear presentation.	
	Student presents information in logical, interesting sequence which audience can follow.	
	Student demonstrates full knowledge (more than required) by answering all class questions with explanations and elaboration.	
/100		

# DKE Engineering Process – Judge’s Rubric

Scale: 0-10 NEEDS IMPROVING    11-13 FAIR    14-15 GOOD    16-18 SUPERIOR    19-20 OUTSTANDING

<i>Description of Trait</i>		<i>Comments</i>
<b>INNOVATIVE IDEA</b>		
/20	Original idea -- not a "typically" repeated experiment	
	Demonstrates New or Improved ways of communicating scientific ideas	
	Ingenious use of materials?	
	Original mode of carrying out exhibit.	
<b>ENGINEERING DESIGN</b>		
/20	Is there need defined, design requirements, original and final designs, materials needed, testing results and the analysis, redesigning and retesting results and the analysis as needed, & conclusion?	
	Procedure is clear step by step process.	
	Graphs/data tables are clear and show results	
	Is there adequate data to support the conclusion?	
<b>UNDERSTANDING</b>		
/20	Does the student understand the engineering principles involve?	
	Is the student aware of other approaches or theories concerning this project?	
	Is it evident that there is research information beyond what is already known?	
	Students ability to answer questions completely.	
<b>DISPLAY</b>		
/20	Clear labels/appropriate layout	
	Correct spelling & punctuation	
	Eye Appeal?	
	Craftsmanship/effort applied	
<b>PRESENTATION</b>		
/20	Students eye contact	
	Student uses a clear voice and correct, precise pronunciation of terms so that all audience members can hear presentation.	
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/100		