Table 4a: Modeling Curriculum Activities in Unit Four, in Order of the NYSS

Activity title and number	New York State Standards	Description
	Standard 1	
13) Test	M1.1	Abstract representation
8) Worksheet 3: Velocity Selector	M1.1	to communicate mathematically
9) Activity: Small Motors	M1.1	
5) Lab: Force On a Current Bearing Wire	M2.1	Deductive and inductive reasoning to reach mathematical conclusion
13) Test	M3.1	Explain physical relevance of a graph of real world data Develop explanation of natural
5) Lab: Force On a Current Bearing Wire	M3.1	
5) Lab: Force On a Current Bearing Wire	S1.1	
9) Activity: Small Motors	S1.1	phenomena
1) Lab 1: New Field Exploration Around a Vertical Wire	S2.1	Design experiment to investigate
2) Lab 2 : Permanent Magnets With Iron Filings	S2.1	relationship between physical
4) Demo: Force On a Current Bearing Wire	S2.1	phenomena
9) Activity: Small Motors	S2.1	
1) Lab 1: New Field Exploration Around a Vertical Wire	S2.3	Develop, predict, and explain
Lab 2 : Permanent Magnets With Iron Filings     Demo: Force On a Current Bearing Wire	\$2.3 \$2.3	proposed relationships for physical
5) Lab: Force On a Current Bearing Wire	\$2.3 \$2.3	phenomena  Carry out research to test theories
9) Activity: Small Motors	S2.3	
Lab 1: New Field Exploration Around a Vertical Wire	S2.4	
2) Lab 2 : Permanent Magnets With Iron Filings	S2.4 S2.4	Carry out research to test theories
4) Demo: Force On a Current Bearing Wire	S2.4 S2.4	
5) Lab: Force On a Current Bearing Wire	S2.4	
9) Activity: Small Motors	S2.4 S2.4	1
Lab 1: New Field Exploration Around a Vertical Wire	S3.1	Scientific data-graphs, diagrams
2) Lab 2 : Permanent Magnets With Iron Filings	S3.1	charts, equations
4) Demo: Force On a Current Bearing Wire	S3.1	onario, oquanono
5) Lab: Force On a Current Bearing Wire	S3.1	
9) Activity: Small Motors	S3.1	1
Lab 1: New Field Exploration Around a Vertical Wire	S3.3	Reach a conclusion on whether
2) Lab 2 : Permanent Magnets With Iron Filings	S3.3	your data supports your explanation
4) Demo: Force On a Current Bearing Wire	S3.3	your data supports your explanation
5) Lab: Force On a Current Bearing Wire	S3.3	
9) Activity: Small Motors	S3.3	
1) Lab 1: New Field Exploration Around a Vertical Wire	S3.4	Discuss relationships with class
		Discuss relationships with class revise if necessary
2) Lab 2 : Permanent Magnets With Iron Filings	S3.4	
Lab 2 : Permanent Magnets With Iron Filings     Demo: Force On a Current Bearing Wire	\$3.4 \$3.4	revise if necessary
Lab 2 : Permanent Magnets With Iron Filings     Demo: Force On a Current Bearing Wire     Lab: Force On a Current Bearing Wire		revise if necessary
4) Demo: Force On a Current Bearing Wire	S3.4	revise if necessary
Demo: Force On a Current Bearing Wire     Lab: Force On a Current Bearing Wire	\$3.4 \$3.4	revise if necessary
Demo: Force On a Current Bearing Wire     Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 Standard 2	revise if necessary  Prepare multimedia presentation
Demo: Force On a Current Bearing Wire     Lab: Force On a Current Bearing Wire     Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire	\$3.4 \$3.4 \$3.4 \$tandard 2	Prepare multimedia presentation
Demo: Force On a Current Bearing Wire     Lab: Force On a Current Bearing Wire     Activity: Small Motors     Lab 1: New Field Exploration Around a Vertical Wire     Activity: Small Motors	\$3.4 \$3.4 \$3.4 \$tandard 2 1.2 \$tandard 4 4.1v	Prepare multimedia presentation  Observe/explain energy conservation
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 9) Activity: Small Motors 9) Activity: Small Motors	\$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.10 \$1.10 \$1.10 \$1.10	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors	\$3.4 \$3.4 \$3.4 \$tandard 2 1.2 \$tandard 4 4.1v 4.1vi 4.1vii	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors	\$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.10 \$1	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test	\$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.10 \$1.	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings	\$3.4 \$3.4 \$3.4 \$tandard 2 1.2 \$tandard 4 4.1v 4.1vi 4.1vii 4.1viii 4.1viii 4.1xv	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1	\$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.10 \$	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields	\$3.4 \$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.10 \$1.	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors	\$3.4 \$3.4 \$3.4 \$3.4 \$1.2	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 9) Activity: Small Motors 9) Activity: Small Motors 9) Activity: Small Motors 1) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test	\$3.4 \$3.4 \$3.4 \$3.4 \$tandard 2 1.2 \$tandard 4 4.1v 4.1vi 4.1vii 4.1viii 4.1viii 4.1xv 4.1xv 4.1xv 4.1xv 4.1xv 4.1xv	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1	\$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.1 \$1.1	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 3) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.1	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$1.2	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$1.2	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2	\$3.4 \$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.1	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector	\$3.4 \$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.1 \$1.1 \$1.1 \$1.1 \$1.1 \$1.1 \$1.2	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.1	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$5.3.4 \$5.1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2 \$1.2	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$5.10	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors  1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$54.1vii \$54.1viii \$54.1vii \$54.1vii \$55.1viii	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis  Revise a model to make an improved
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$63.1	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis  Revise a model to make an improved
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$4.1v  4.1vi 4.1vii 4.1vii 4.1vii 4.1xv 4.1xv 4.1xv 4.1xv 5.1v 5.1v 5.1v 5.1v 5.1vi 5.1vii 5.1vii 5.1vii 5.1viii \$5.1viii 5.1viii \$5.1viii 5.1viii	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis  Revise a model to make an improved  representation of a system
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$6.1 \$6.1 \$6.1 \$6.1 \$6.1 \$6.1 \$6.1 \$6.1	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices Compare power developed with work done to different objects Measure current and voltage in a circuit Map magnetic field of a permanent magnet Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis Revise a model to make an improved representation of a system  Use observations of behavior of a
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$4.1v  4.1v  4.1v  4.1vii 4.1viii 4.1viii 4.1xv 4.1xv 4.1xv 5.1v 5.1v 5.1v 5.1vi 5.1vii 5.1vii 5.1viii	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis  Revise a model to make an improved  representation of a system
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices Compare power developed with work done to different objects Measure current and voltage in a circuit Map magnetic field of a permanent magnet Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis Revise a model to make an improved representation of a system  Use observations of behavior of a
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 6) Lab: Torce On a Current Bearing Wire 7) Lab 1: New Field Exploration Around a Vertical Wire 8) Lab: Force On a Current Bearing Wire 9) Lab: Force On a Current Bearing Wire 9) Lab: Force On a Current Bearing Wire 9) Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$6.10 \$	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis  Revise a model to make an improved  representation of a system  Use observations of behavior of a  system to develop a model
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices  Compare power developed with work done to different objects  Measure current and voltage in a circuit  Map magnetic field of a permanent magnet  Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically  Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis  Revise a model to make an improved  representation of a system  Use observations of behavior of a  system to develop a model  Use mathematical and physical models to represent real world systems
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab: Force On a Current Bearing Wire 3) Lab: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 6) Lab: Force On a Current Bearing Wire 7) Lab 1: New Field Exploration Around a Vertical Wire 8) Lab: Force On a Current Bearing Wire 9) Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices Compare power developed with work done to different objects Measure current and voltage in a circuit Map magnetic field of a permanent magnet Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis Revise a model to make an improved representation of a system  Use observations of behavior of a system to develop a model  Use mathematical and physical models to represent real world systems Compare predictions with observations
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 6) Lab 1: New Field Exploration Around a Vertical Wire 9) Lab 1: New Field Exploration Around a Vertical Wire 9) Lab: Force On a Current Bearing Wire 9) Lab: Force On a Current Bearing Wire 9) Lab: Force On a Current Bearing Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire 9) Lab: New Field Exploration Around a Vertical Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices Compare power developed with work done to different objects Measure current and voltage in a circuit Map magnetic field of a permanent magnet Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis Revise a model to make an improved representation of a system  Use observations of behavior of a system to develop a model  Use mathematical and physical models to represent real world systems
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 2 8) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 1) Lab 2: Permanent Magnets With Iron Fillings 5) Lab: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 6) Lab: Force On a Current Bearing Wire 7) Lab 1: New Field Exploration Around a Vertical Wire 9) Lab: Force On a Current Bearing Wire 9) Lab: Permanent Magnets With Iron Fillings 9) Lab: Force On a Current Bearing Wire 9) Lab: Permanent Magnets With Iron Fillings 9) Lab: Force On a Current Bearing Wire 9) Lab: Permanent Magnets With Iron Fillings 9) Lab: Force On a Current Bearing Wire 9) Lab: Permanent Magnets With Iron Fillings 9) Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$63.4 \$	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices Compare power developed with work done to different objects Measure current and voltage in a circuit Map magnetic field of a permanent magnet Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis Revise a model to make an improved representation of a system  Use observations of behavior of a system to develop a model  Use mathematical and physical models to represent real world systems Compare predictions with observations to validate or reject predictions
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 6) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 6) Lab: Force On a Current Bearing Wire 6) Lab: Force On a Current Bearing Wire 7) Lab 1: New Field Exploration Around a Vertical Wire 8) Lab: Force On a Current Bearing Wire 9) Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$53.4 \$63.4 \$	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices Compare power developed with work done to different objects Measure current and voltage in a circuit Map magnetic field of a permanent magnet Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis Revise a model to make an improved representation of a system  Use observations of behavior of a system to develop a model  Use mathematical and physical models to represent real world systems Compare predictions with observations
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 13) Test 6) Worksheet 3: Velocity Selector 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 4) Demo: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices Compare power developed with work done to different objects Measure current and voltage in a circuit Map magnetic field of a permanent magnet Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis Revise a model to make an improved representation of a system  Use observations of behavior of a system to develop a model  Use mathematical and physical models to represent real world systems Compare predictions with observations to validate or reject predictions  Describe how disturbances may effect a systems equilibrium
4) Demo: Force On a Current Bearing Wire 5) Lab: Force On a Current Bearing Wire 9) Activity: Small Motors 1) Lab 1: New Field Exploration Around a Vertical Wire 9) Activity: Small Motors 13) Test 2) Lab 2: Permanent Magnets With Iron Filings 3) Worksheet 1 7) Quiz 1: Fields 9) Activity: Small Motors 13) Test 3) Worksheet 1 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 4) Demo: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 5) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 6) Lab: Force On a Current Bearing Wire 1) Lab 1: New Field Exploration Around a Vertical Wire 2) Lab 2: Permanent Magnets With Iron Filings 6) Lab: Force On a Current Bearing Wire 6) Lab: Force On a Current Bearing Wire 7) Lab 1: New Field Exploration Around a Vertical Wire 8) Lab: Force On a Current Bearing Wire 9) Lab: Force On a Current Bearing Wire	\$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$3.4 \$\$3.4 \$\$3.4 \$\$3.4 \$\$3.4 \$\$3.4 \$\$\$\$3.4 \$\$\$\$\$\$\$\$\$\$	Prepare multimedia presentation  Observe/explain energy conservation  Recognize conversions among different forms of energy in real world devices Compare power developed with work done to different objects Measure current and voltage in a circuit Map magnetic field of a permanent magnet Indicate direction of fields between north and south  Draw force diagrams to scale  Break down vectors into components graphically and algebraically Sketch the path of projectiles  Use vector diagrams to analyze systems  Define boundary conditions when doing system analysis Revise a model to make an improved representation of a system  Use observations of behavior of a system to develop a model  Use mathematical and physical models to represent real world systems Compare predictions with observations to validate or reject predictions

Page 1 of 1 table 4a