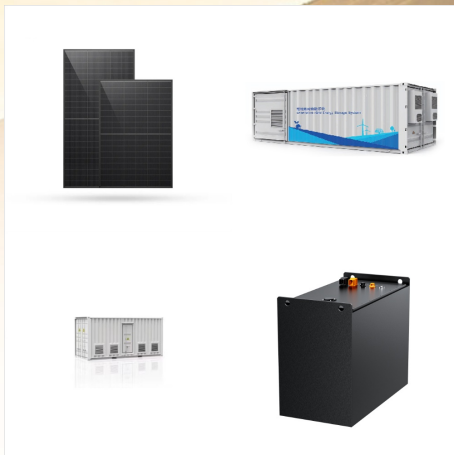
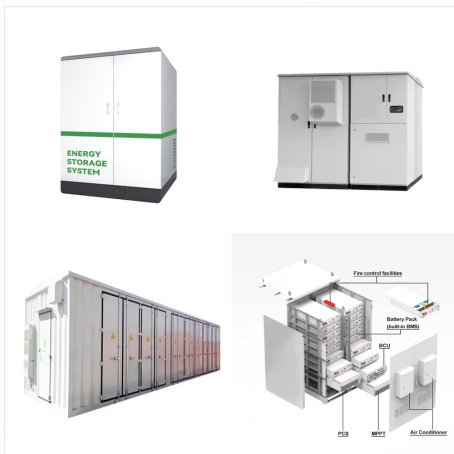




Energy Storage and Transfer Model Worksheet 4:
 (C)Modeling Instruction - AMTA 2013 1 U8 Energy -
 ws 4 v3.1. Position A. Energy (J) 0 Ek Eg Eel
 Energy Model Worksheet: Author: John Burroughs
 School Last modified by: Daniela Poenariu Created
 Date: 11/30/2016 5:27:00 PM

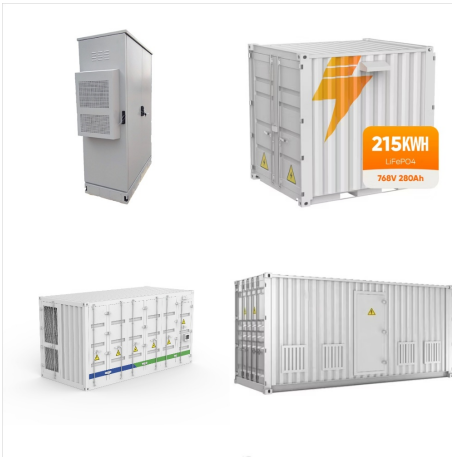


(C)Modeling Instruction ??? AMTA 2013 1 U8
 Energy - ws 1b v3.1 Name Date Pd Energy Storage
 and Transfer Model Worksheet 1b: Qualitative
 Analysis - Pie Charts Use pie charts to analyze the
 energy changes in each situation given. Designate
 your choice of system with a dotted line. Choose
 your system so that the energies



(C)Modeling Instruction ??? AMTA 2013 1 U8
 Energy - ws 1b v3.1 Name Date Pd Energy Storage
 and Transfer Model Worksheet 1b: Qualitative
 Analysis - Pie Charts Use pie charts to analyze the
 energy changes in each situation given. Designate
 your choice of system with a dotted line. Choose
 your system so that the energies involved are
 internal (within the ???)

ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



The Model So Far ??? Energy Storage & Transfer
29 Overview 29 Resource Index 30 Unit 1 Activity 1:
Write It, Do It 30 Unit 1 Worksheet 5: Energy Bar
Graphs 82 Unit 1 Reading 4: Creating Energy Bar
Graphs 85. Unit 1: Qualitative Energy Storage &
Transfer 5 ???2023 AAPT, AMTA, Bootstrap,
STEMTeachersNYC Energy: An Overview



yes name date energy storage and transfer model
worksheet pd energy transfer and power student
eats tasty school lunch containing 700 calories. (one
food. Skip to document. University; High School.
AMTA 2013 2 U8 Energy - ws 5 v3. Positi on A
Energy (J) 0 Positi on B Energy (J) 0 Ek Eg Ee Eth
System /Flow Ek Eg Eel Ech W trai ns mot or



(C)Modeling Instruction ??? AMTA 2013 1 U8
Energy - ws 1b v3.1 Name Date Pd Energy Storage
and Transfer Model Worksheet 1: Qualitative
Analysis - Pie Charts and LOL Diagrams Use pie
charts and LOL Diagrams to analyze the energy
changes in each situation given. Designate your
choice of system with a dotted line. Choose your
system so that the ???

ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



(C)Modeling Instruction - AMTA 2013 1 U8 Energy -
ws 3 v3.1 Name Date Pd Energy Model Worksheet
3: Qualitative Energy Storage & Conservation with
Bar Graphs For each situation shown below: 1. List
objects in the system within the circle. **Always
include the earth's gravitational field in your system.
2.



Name haye Pna Date Energy Storage and Transfer
Model Worksheet 5: Energy Transfer and Power 1.
A student cats a tasty school lunch containing 700
Calories. (One food Calorie 4186 Joules.) Due to
basal metabolism, the ???



Average Electric Power. The average electric power
is defined as the amount of electric energy
transferred across a boundary divided by the time
interval over which the transfer occurs.
Mathematically, the average electric power for a
time interval (t_{obs}) can be calculated
from the equation $\dot{W}_{\text{avg, in}} = \frac{1}{t_{\text{obs}}} \text{ ???}$

ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



Energy Storage and Transfer Model Worksheet 5:
Energy Transfer and Power. 1. A student eats a
tasty school lunch containing 700 Calories. (One
food Calorie = 4186 joules.) AMTA 2013 3 U8
Energy - ws 5 v3.1. Position A. Energy (J) 0 Position
B. Energy (J) 0 Ek Eg Ee Eth. System/Flow. Ek Eg
Eel Ech. student. pianos. Earth.



Name Date Pd Energy Storage and Transfer Model
Worksheet 4: Energy Transfer and Power Part 1 We
need more POWER The average American
consumes 2300 calories a day. 1. How many Joules
of Energy must they use to burn all that energy? 2.
Since there are 24 hours in a day, 60 minutes in an
hour, and 60 seconds in a minute, how many
seconds are in a day? 3.



(C)Modeling Instruction ??? AMTA 2013 1 U8
Energy - ws 1a v3.1 Name Date Pd Energy Storage
and Transfer Model Worksheet 1a: AMTA 2013 2
U8 Energy - ws 1a v3.1 4. The toy is wound up and
moving along at a constant speed. 5. The toy is
wound up and slowing down as it moves up an
incline. 6. The toy is wound up and speeding up as
it moves up an

ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



Name Date Pd Energy Storage and Transfer Model
Worksheet 1a: Qualitative Analysis - Pie Charts Use
pie charts to analyze the energy changes in each
situation given. ??? Designate your choice of
system with a dotted line. Choose your system so
that the energies involved are internal (within the
system). ??? Carefully label the pies to correspond
with the positions of the objects given.



Energy Model Worksheet 3: Qualitative Energy
Storage & Conservation with Bar Graphs For each
situation shown below: 1. List objects in the system
within the circle. **Always include the earth's
gravitational field in your system. 2. On the physical
diagram, indicate your choice of zero height for
measuring gravitational energy. 3.

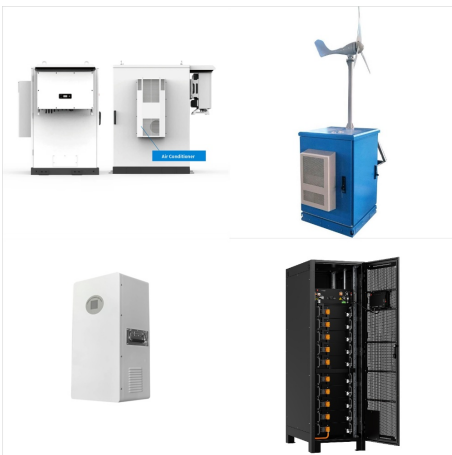


Name Date Pd Energy Storage and Transfer Model
Worksheet 5: Energy Transfer and Power 1. A
student eats a tasty school lunch containing 700. AI
Chat with PDF. Expert Help. Study Resources.
AMTA 2013 1 U8 Energy - ws 5 v3.1 Name Date Pd
Energy Storage and Transfer Model Worksheet 5:

ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



Name Date Pd Energy Storage and Transfer Model
Worksheet 1a: Qualitative Analysis - Pie Charts Use
pie charts to analyze the energy changes. AI Chat
with PDF. Expert Help. AMTA 2013 2 U8 Energy -
ws 1a v3.1 6. The toy is wound up and speeding up
as it moves up an incline. (C)Modeling Instruction -
AMTA 2013 3 U8 Energy - ws 1a v3.1. View full



(C)Modeling Instruction - AMTA 2013 1 Energy ws 2
v3.1 Name Date Pd Energy Storage and Transfer
Model Worksheet 2: Hooke's Law and Elastic
Energy Suppose one lab group found that $F = 1000$
 N/m (??? x). Construct a graphical representation of
force vs. displacement. (Hint: make the maximum
displacement 0.25 m.)



Energy storage and transfer model worksheet 4. u8
energy ws4. (C)Modeling Instruction - AMTA 2013
2 U8 Energy - ws 4 v3.1. 7. A cart moving at 5 m/s
collides with a spring. At the instant the cart is
motionless, what is the largest amount that the
spring could be compressed? Assume no friction.

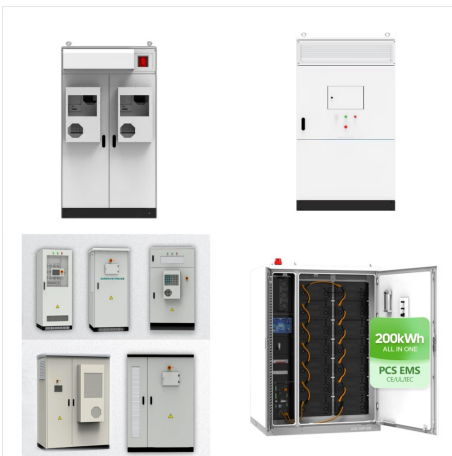
ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



Question: Name here Date Energy Storage and Transfer Model Worksheet 5: Energy Transfer and Power 1. A student eats a tasty school lunch containing 700 Calories. (One food Calorie 4186 Joules.) Due to basal metabolism, the student radiates about 100 Joules per second into the environment. a.



Energy Storage and Transfer Model Worksheet 1a: Qualitative Analysis - Pie Charts. Use pie charts to analyze the energy changes in each situation given. (C)Modeling Instruction ??? AMTA 2013 1 U8 Energy - ws 1a v3.1. Title: Name Author: Schober Last modified by: Steven B Barker



Name here Pna Date Energy Storage and Transfer Model Worksheet 5: Energy Transfer and Power 1. A student eats a tasty school lunch containing 700 Calories. (One food Calorie 4186 Joules.) Due to basal metabolism, the student radiates about 100 Joules per second into the environment. U8 Energy- ws 5 v3.1 CModeling Instruction - AMTA 2013 3

ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



Energy Storage and Transfer Model Worksheet 1b:
Qualitative Analysis - Pie Charts Use pie charts to
analyze the energy changes in each situation given.
Designate your choice of system with a dotted line.
Choose your system so that the energies involved
are ???

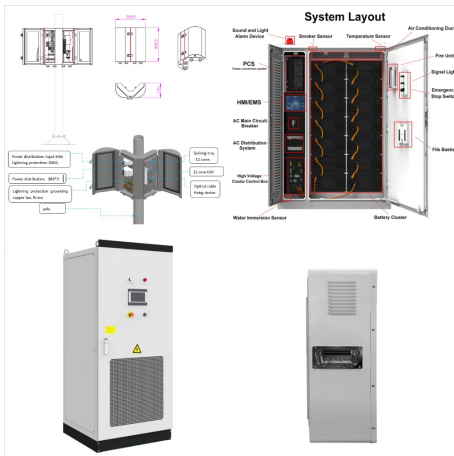


Energy Storage and Transfer Model Worksheet 4:
(C)Modeling Instruction - AMTA 2013 3 U8 Energy -
ws 4 v3.1. cart. spring. Position A. Energy (J) 0 Ek
Eg Eel . Position B. Energy Model Worksheet:
Author: John Burroughs School Last modified by:
Daniela Poenariu Created Date:



(C)Modeling Instruction ??? AMTA 2013 1 U8
Energy - ws 1b v3.1 Energy Storage and Transfer
Model Worksheet 1b: Qualitative Analysis - Pie
Charts Use pie charts to analyze the energy
changes in each situation given. Designate your
choice of system with a dotted line. Choose your
system so that the energies involved are internal
(within the system).

ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



Energy Storage and Transfer Model Worksheet 2:
Hooke's Law and Elastic Energy Suppose one lab group found that $F = 1000 \text{ N/m}$ (???x). Construct a graphical representation of force vs. displacement. (Hint: make the maximum displacement 0 m. (C)Modeling Instruction - AMTA 2013 1 Energy ws 2 v3. 2 0 0 N N 1 0 0 N N N 5. Determine the amount



Energy Storage and Transfer Model Worksheet 2:
Hooke's Law and Elastic Energy. Suppose one lab group found that $F = 1000 \text{ N/m}$ (???x). Graphically determine the amount of energy stored while stretching the spring described above from $x = 0$ to $x = 10$. cm. AMTA 2013 3 Energy ws 2 v3.1. 0 0.1m. 0.2m. 0 200N N. 100N NN. Fel. Fg. FN. FT



Energy Model Worksheet 1a: Qualitative Analysis -
Pie Charts ??? The pies should be accurately divided and labeled with the energy storage mechanisms involved. (C)Modeling Instruction 2010 2 U8 Energy - ws 1a v3.0 4. The toy is wound up and moving along at a constant speed. 5. The toy is wound up and slowing down as it moves up an incline.

ENERGY STORAGE AND TRANSFER MODEL WS 5AMTA 2013



(C)Modeling Instruction ??? AMTA 2013 1 U8
Energy - ws 1a v3.1 Name Date Pd Energy Storage
and Transfer Model Worksheet 1a: Qualitative
Analysis - Pie Charts Use pie charts to analyze the
energy changes in each situation given. ???
Designate your choice of system with a dotted line.
Choose your system so that the energies