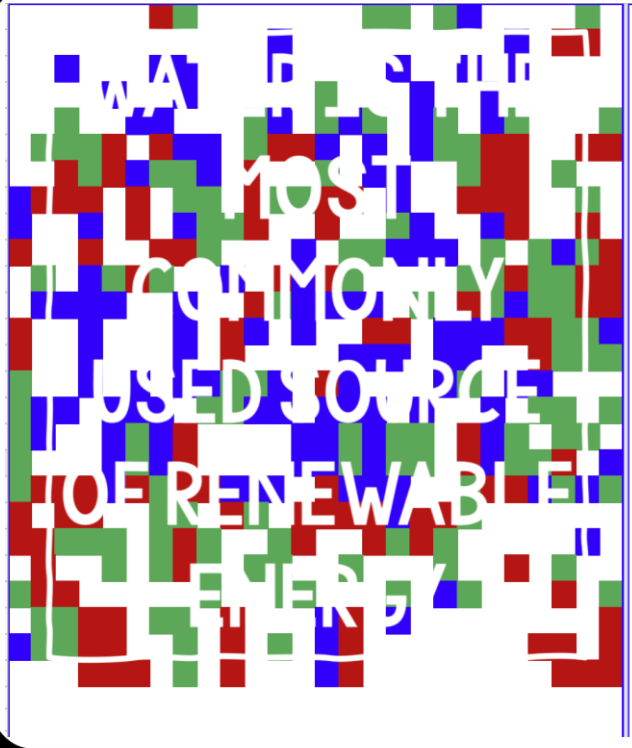
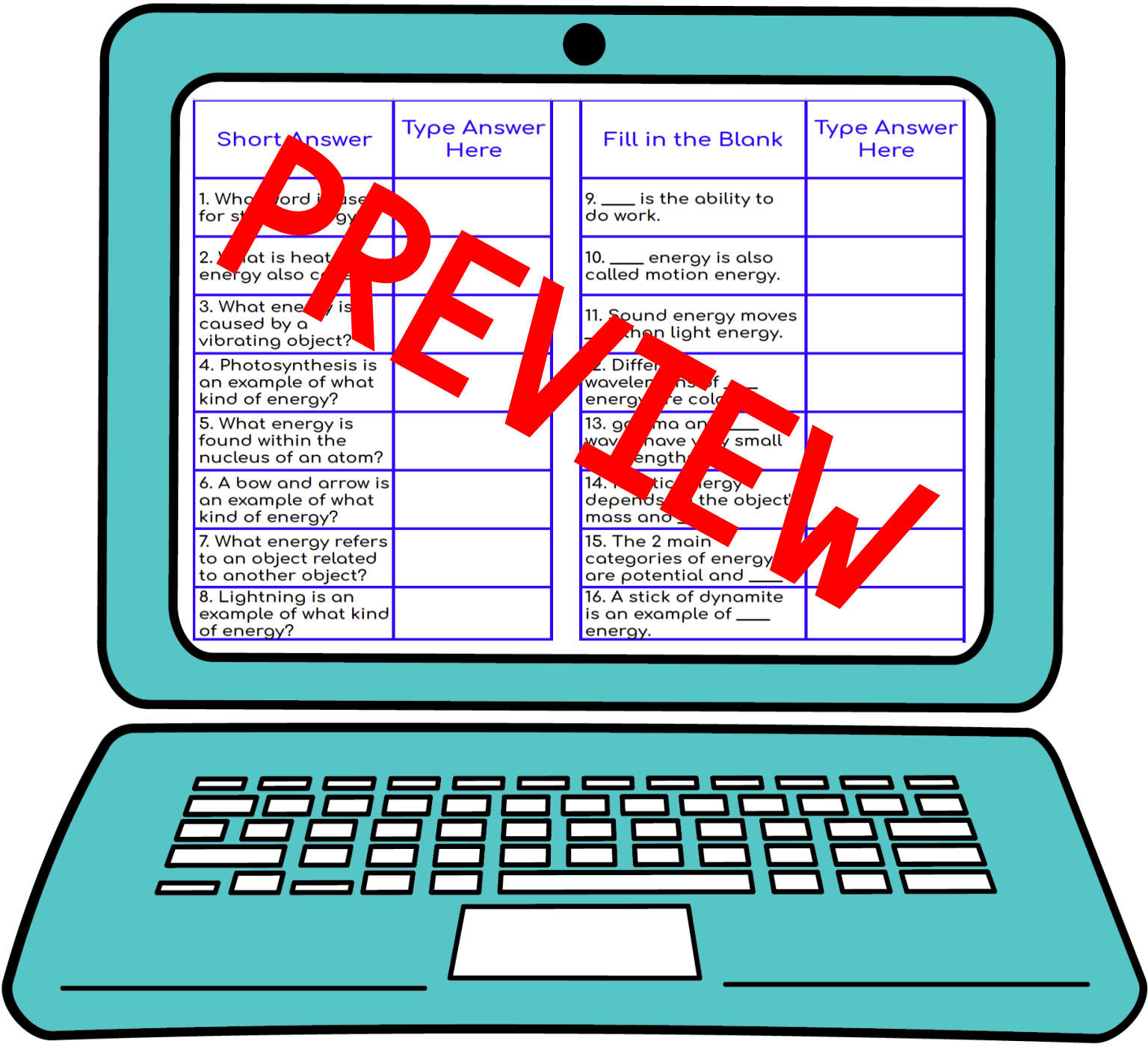
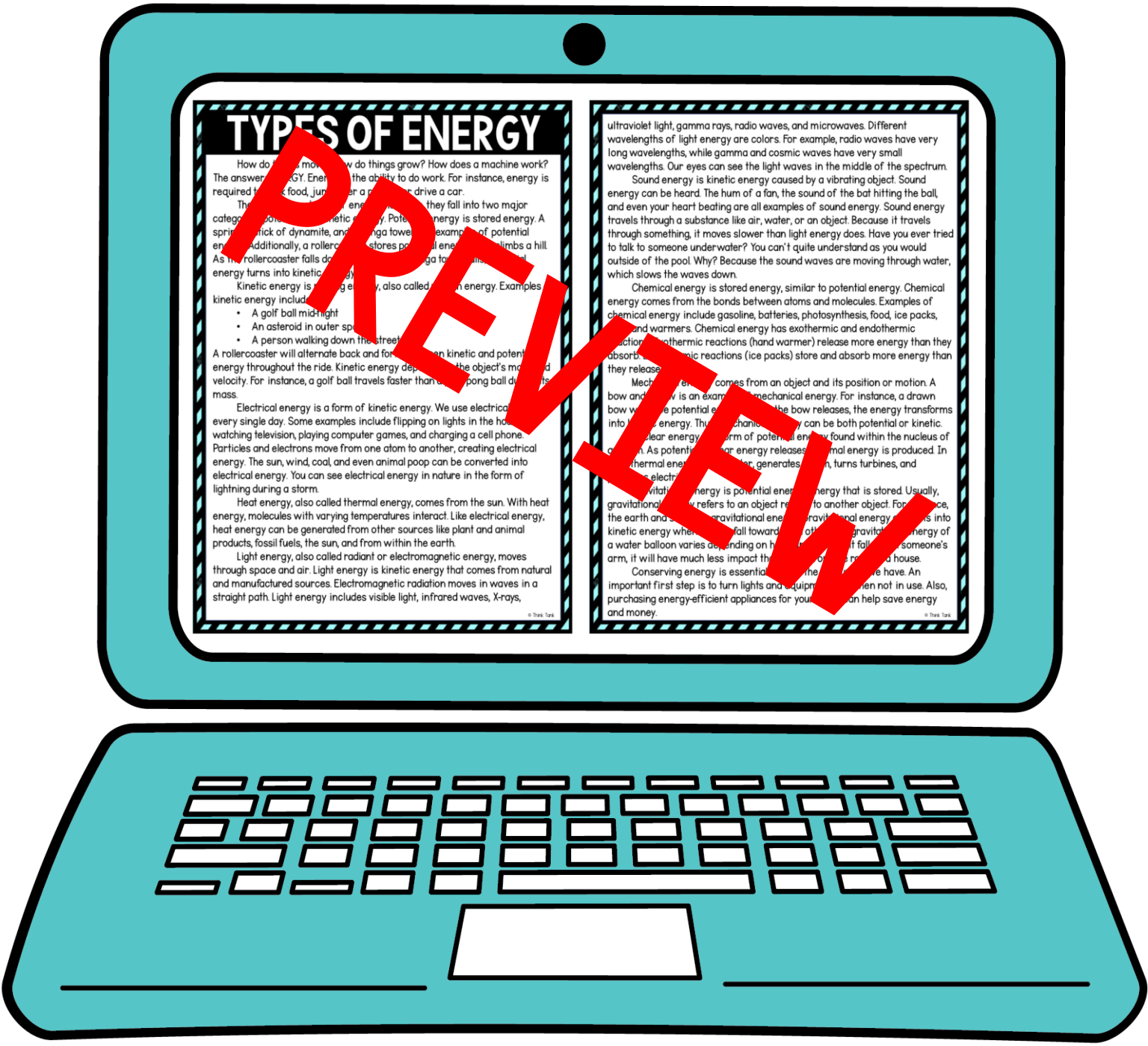


Short Answer	Type Answer Here
1. What word is used for stored energy?	
2. What is heat energy also called?	
3. What energy is caused by a vibrating object?	
4. Photosynthesis is an example of what kind of energy?	
5. What energy is found within the nucleus of an atom?	
6. A bow and arrow is an example of what kind of energy?	
7. What energy refers to an object related to another object?	
8. Lightning is an example of what kind of energy?	



Short Answer	Type Answer Here
1. Wh ord i se for st gy	
2. at is heat energy also c e	
3. What ene y is caused by a vibrating object?	
4. Photosynthesis is an example of what kind of energy?	
5. What energy is found within the nucleus of an atom?	
6. A bow and arrow is an example of what kind of energy?	
7. What energy refers to an object related to another object?	
8. Lightning is an example of what kind of energy?	

Fill in the Blank	Type Answer Here
9. ____ is the ability to do work.	
10. ____ energy is also called motion energy.	
11. Sound energy moves han light energy.	
12. Diffe wavele hs of energy re col	
13. g ma an wav have y small ength	
14. tic ergy depends the object mass and	
15. The 2 main categories of energy are potential and ____	
16. A stick of dynamite is an example of ____ energy.	


TYPES OF ENERGY
How do
mo
w do things grow? How does a machine work?
The answer
GY. Ener
the ability to do work. For instance, energy is
required t
food, ju
er a
drive a car.
Th
ene
they fall into two major
catego
etic
y. Pote
nergy is stored energy. A
sprin
tick of dynamite, and
nga towe
exampl
of potential
en
Additionally, a rollerc
stores po
l ene
limbs a hill.
As
rollercoaster falls do
ga ta
energy turns into kinetic
Kinetic energy is
g e
y, also called
n energy. Examples
kinetic energy includ
A golf ball mid-flight
An asteroid in outer sp
A person walking down the street
A rollercoaster will alternate back and for
an kinetic and potent
energy throughout the ride. Kinetic energy dep
the object's ma
d
velocity. For instance, a golf ball travels faster than a
pong ball d
mass.
Electrical energy is a form of kinetic energy. We use electrica
every single day. Some examples include flipping on lights in the ho
watching television, playing computer games, and charging a cell phone.
Particles and electrons move from one atom to another, creating electrical
energy. The sun, wind, coal, and even animal poop can be converted into
electrical energy. You can see electrical energy in nature in the form of
lightning during a storm.
Heat energy, also called thermal energy, comes from the sun. With heat
energy, molecules with varying temperatures interact. Like electrical energy,
heat energy can be generated from other sources like plant and animal
products, fossil fuels, the sun, and from within the earth.
Light energy, also called radiant or electromagnetic energy, moves
through space and air. Light energy is kinetic energy that comes from natural
and manufactured sources. Electromagnetic radiation moves in waves in a
straight path. Light energy includes visible light, infrared waves, X-rays,
© Think Tank
ultraviolet light, gamma rays, radio waves, and microwaves. Different
wavelengths of light energy are colors. For example, radio waves have very
long wavelengths, while gamma and cosmic waves have very small
wavelengths. Our eyes can see the light waves in the middle of the spectrum.
Sound energy is kinetic energy caused by a vibrating object. Sound
energy can be heard. The hum of a fan, the sound of the bat hitting the ball,
and even your heart beating are all examples of sound energy. Sound energy
travels through a substance like air, water, or an object. Because it travels
through something, it moves slower than light energy does. Have you ever tried
to talk to someone underwater? You can't quite understand as you would
outside of the pool. Why? Because the sound waves are moving through water,
which slows the waves down.
Chemical energy is stored energy, similar to potential energy. Chemical
energy comes from the bonds between atoms and molecules. Examples of
chemical energy include gasoline, batteries, photosynthesis, food, ice packs,
nd warmers. Chemical energy has exothermic and endothermic
actions
othermic reactions (hand warmer) release more energy than they
absorb
mic reactions (ice packs) store and absorb more energy than
they release
Mech
comes from an object and its position or motion. A
bow and
v is an exam
mechanical energy. For instance, a drawn
bow w
e potential e
the bow releases, the energy transforms
into
energy. Th
chanic
y can be both potential or kinetic.
lear energy
rm of poten
l en
found within the nucleus of
a
n. As potenti
ar energy releases
mal energy is produced. In
hermal ene
r generates
n, turns turbines, and
electr
vitat
nergy is potential ener
nergy that is stored. Usually,
gravitational
refers to an object re
to another object. For
ce,
the earth and
gravitational ene
gravit
nal energy
is into
kinetic energy when
fall toward
ot
gravita
nergy of
a water balloon varies depending on h
t fall
someone's
arm, it will have much less impact th
o
d house.
Conserving energy is essential
the
e have. An
important first step is to turn lights and
quipm
hen not in use. Also,
purchasing energy-efficient appliances for your
an help save energy
and money.
© Think Tank
PREVIEW


PLEASE VIEW
THE VIDEO TO
SEE HOW THIS
PRODUCT WORKS