The National Orthodox School Shmaisani

The National Orthodox School/ Shmaisani

Subject: Science/ Physics

Name: … Key……

Worksheet 1: Energy Types

Date: ……

Grade 6 CS all sections

Objectives:

- **Comprehend different types of energy.**

Question 1:

Question 1:

Each of these objects transfers energy into useful types of energy.

 Light Energy	 Thermal Energy	 Thermal Energy
 Sound Energy	 Sound Energy	 Kinetic Energy

Write down the **useful** type of energy released below each object.

Choose the type of energy from

electrical **kinetic** **light** **sound** **thermal**

Question 2:

Write the correct type of energy described in each of the following situation, and tick whether it is considered potential or kinetic energy:

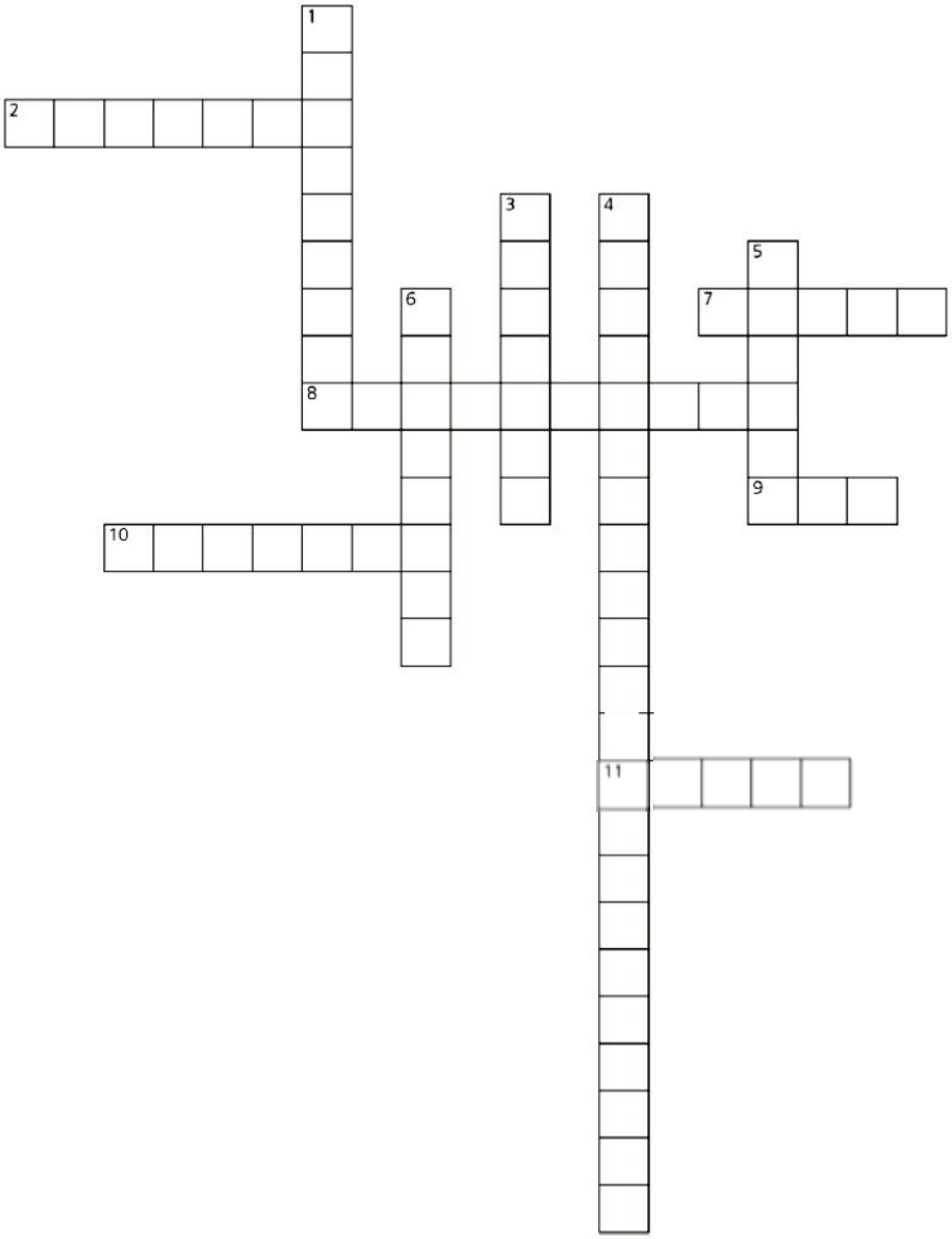
Situation	Form of energy	Potential Energy	Kinetic Energy
A car is moving.	Kinetic Energy		√
The engine gets hot.	Thermal Energy		√
The headlights are on.	Light Energy		√
The engine is making noise.	Sound Energy		√
The car battery stores energy.	Chemical Energy	√	
Wires inside the car pass this energy to the controls.	Electrical Energy		√
The car is filled with fuel.	Chemical energy	√	
The car seat is springy.	Elastic Energy	√	
If the car is left on a hill without the handbrake on, it will roll down because of this energy.	Gravitational Potential Energy	√	

Question 3: Fill in the table with an example of each type of energy:

Type of energy	Example
Movement (kinetic) energy	A moving car, motorcycle, bicycle.
Gravitational potential energy	A man standing on a diving board.
Elastic potential energy	Stretching rubber bands, springs.
Thermal energy	Heating food on stoves, energy given by a fireplace.
Light energy	Light bulbs, traffic lights, candles.
Sound energy	Speakers, musical instruments.
Electrical energy	Charging your phone and computer.
Chemical potential energy	Energy stored in food, fuels and batteries.

Question 4: Complete the names of different types of energy and the sentences about them:

Type of energy	
1 Light	Light energy comes from the sun and some electrical items such as light bulbs.
2 Thermal	Things that are hot have a store of thermal energy.
3 Electrical	Electrical energy is often made at power stations and can be converted into many different types of energy.
4 Chemical	Chemical energy can come from our food or fuels.
5 Gravitational potential	Things that are lifted up have gravitational potential energy.
6 Kinetic	Kinetic energy is found in moving objects, the faster they move the more kinetic energy they have.
7 Elastic Potential	A stretched elastic band stores elastic potential energy.
8 Sound	Sound energy is produced by vibrating things and people.



Across

2 This energy keeps us warm. **Thermal**

7 When you speak you are using this energy. **Sound**

8 This energy help us use lots of things in our house, we usually have to plug something in to use it. **Electrical**

9 The source of energy in food and fuels. **Sun**

10 If you pull a rubber band it stores this energy. **Elastic**

11 The sun provides thermal energy and this energy. **Light**

Down

1 There are 1000 J in this. **Kilojoule**

3 When we move we have this energy. **Kinetic**

4 When you are at the top of a diving board you have this energy. **Gravitational Potential**

5 We measure energy in this unit. **Joules**

6 Food or petrol gives us this type of energy. **Chemical**