Grade 4-Term 2 **Heat** Ms. Arwa Al Messabi

Unit 2/ L 4 **ST name**: ..... 4\ .....

Q1: Put correct number of meaning near each type of energy:

1-The transfer of energy between two solid objects that are touching.

2- The energy of moving particles of matter.

3-Movement of energy from hot or warmer object to cooler object.

4- The transfer of energy in moving gases or liquids.

5- Measure of average energy of motion of particles in an object.

6-The energy that come from a source in form of wave or particles.

A-(.....) Temperature درجة الحرارة

B-(.....) Conduction التوصيل

C-(.....) Radiation الاشعاع

D-(.....) Convection الحمل الحراري

E-(.....) Heat الحرارة

F-(.....) Thermal energy. الطاقة الحرارية

Q2: Choose best answer:

1- What does a thermometer مقياس الحرارة measure?

A- Mass B- Temperature C- Size

2-Which of the following tools works as thermal conductor موصل heat easily. A- Wood B- Wool C-Iron

3 – Transfer way in which heat can transfer in space:

A - Radiation B - Conduction C - Convection

6- Which three forms of energy are fireworks given off?

A-Light, sound, electrical B- Light, sound, heat C-Sound, electrical, mechanical

4 - On which objects, will Ahmad notice the melting of the butter first?

A- Plastic pan مقلاة B- Wood pan C- The metal pan

5- A farmer needed to keep his baby chicks warm. He placed a light in their cage. Which sentence best explains the farmer's thinking of placing a light in the cage قفص ?

A- The light would transfer thermal energy to the chicks' cage.

B- The chicks would be healthier if they were not in the dark.

C-The chicks would eat more to stay warm if they can see their food.

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7-In the image below, what evidence can you gather to prove that energy is being transferred?

A- The grill is transferring mechanical energy to cook the food.

B- The grill is transferring sound energy to cook the food.

C-The grill is transferring heat energy to cook the food.

8-It is very hot out side and you walk barefoot حافي القدمين on hot pavementرصيف. Predict what will happen in this scenario.

A- Heat energy transfer from the pavement will cause your feet to feel hot.

B- Light energy transfer from the pavement will cause your feet to feel hot.

C- Light energy transfer from the pavement will cause your feet to feel cold.

Q3: How can producing thermal energy? Choose correct answer:

كيف تتكون الحرارة؟ اختر الإجابات الصحيحة: عدة إجابات انظر. كتابك ص ٧١ page 71

1-Friction 2-Waves 3-Mixing 4-Voice 5-Burning 6-Lightbulds

Q4: Connect each sentence with correct word:

1- **Incandescent** light transfer most energy in to. **Light**

2-**LED light** transfer most energy into. **Heat**

Q5: Put a number on the correct place on the picture:

1-Convection -- 2- radiation – 3- conduction

Q6: You have these materials arrange them in to electrical Conductors or insulators, by putting number: 1= conductor or 2= Insulator:

صنف هذه المواد الى موصلات جيدة للكهرباء او عوازل, بوضع رقم ١ موصل أو ٢ عازل:

	Aluminums		نحاس	Winter coat

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