

**Subject:** Physics

**Topics:** Transfer of heat

**Level:** S.3

**Learning objectives:**

1. Content

By the end of this lesson students will:

- i. know that there are three methods of heat transfer (conduction, convection and radiation)
- ii. will understand how people make use of these three methods of heat transfer in daily life

2. Language

The targeted students are of S.3 low level of English language proficiency. The main language objective(s) of this unit is to strengthen students' speaking and writing abilities. At the end of learning this unit, students should be able to speak and write two types of sentence structures: description and cause and effect.. In addition, students should be able to write paragraphs that include a topic sentence. There are no equation(s) and no calculation or equation in this chapter so the language demand placed on the students is not great. It is worth spending quite a lot of time focussing on the language teaching and learning activities as these activities also support the learning of the subject content

**S.3 Physics**  
**Transfer of heat**  
**Worksheet 1**

Name: \_\_\_\_\_ Class: \_\_\_\_\_ No.: \_\_\_\_\_ Date: \_\_\_\_\_



Work in pairs.

Student A does part A and Student B does part B of this worksheet. Student A reads the answers of part A to Student B slowly. Student B writes down the answers in the space provided below, Next, Student B reads the answers of part B to Student A slowly. Student A writes down the answers in the space provided below.

Part A

1. Provide two examples of heat conductors and two examples of heat insulators. Make sure you include examples of both good and poor examples of these properties.

(a) \_\_\_\_\_ is a good \_\_\_\_\_ of heat

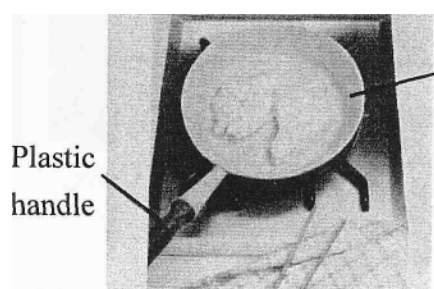
(b) \_\_\_\_\_ is a poor \_\_\_\_\_ of heat

(c) \_\_\_\_\_ is a good \_\_\_\_\_ of heat

(d) \_\_\_\_\_ is a poor \_\_\_\_\_ of heat

3. Examine the labeled picture and complete the sentences.

(a) Frying pans are made of \_\_\_\_\_  
because they are good \_\_\_\_\_  
of heat. They can easily transfer energy to  
the food by \_\_\_\_\_



(b) The handles of frying pan \_\_\_\_\_  
good \_\_\_\_\_  
if they are to reduce the transferring of energy by  
\_\_\_\_\_

## Part B

1. Provide two examples of an absorber of heat and two examples of an emitter of heat. Include for each an example with poor and good qualities

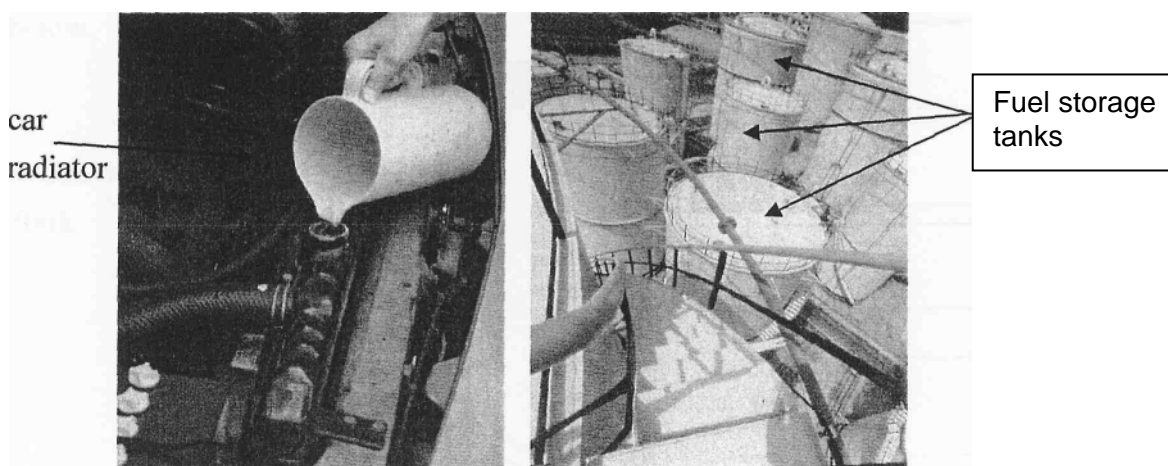
(a) \_\_\_\_\_ surface is a good \_\_\_\_\_ of heat

(b) \_\_\_\_\_ surface is a poor \_\_\_\_\_ of heat

(c) \_\_\_\_\_ surface is a good \_\_\_\_\_ of heat

(d) \_\_\_\_\_ surface is a poor \_\_\_\_\_ of heat

2. Look at the labelled pictures below and complete the sentences that follow.



(a) The car radiator is painted \_\_\_\_\_ because  
\_\_\_\_\_ surface is a good \_\_\_\_\_ of  
\_\_\_\_\_ so that it can lose energy easily.

(b) Fuel storage tanks \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ they will not overheat.

