

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

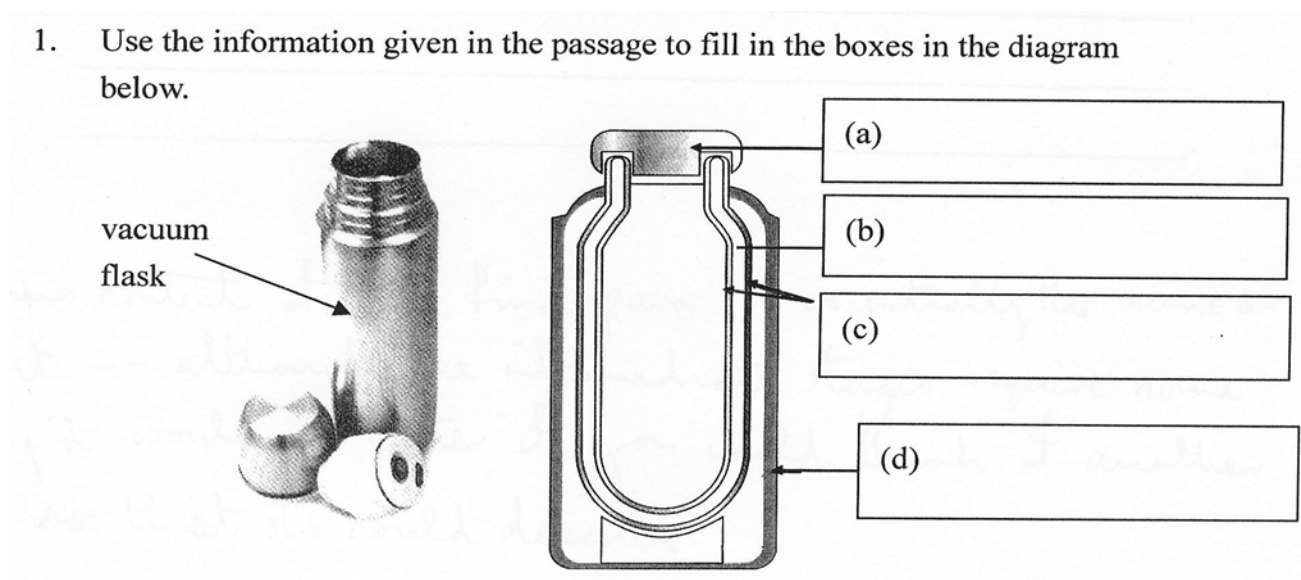
S.3 Physics
Transfer of heat
Worksheet 2

Name: _____ Class: _____ No.: _____ Date: _____

The following passage is a description of the structure of a vacuum flask. As you read it, underline the words which refer to the different parts of the vacuum flask.

A vacuum flask is a classic example used to illustrate the idea of reducing heat loss through different transfer processes. The flask has a plastic stopper, a double layer of thin glass walls, and a vacuum between the walls. The inner side of the glass wall has a shiny silver surface. The external case is made of plastic foam, which is a relatively poor thermal conductor.

1. Use the information given in the passage above to fill in the boxes in the diagram below.



2. The uses of the different parts of the vacuum flask. Fill in the following table.

Parts of the vacuum flask	helps reducing heat loss by
(a)	
(b)	
(c)	
(d)	

3, Write a short paragraph to describe how heat loss is reduced in the vacuum flask.

There are _____ main parts in the vacuum: the _____,
the _____, the _____.
and the _____. The _____
helps reducing heat loss through _____.

The _____

