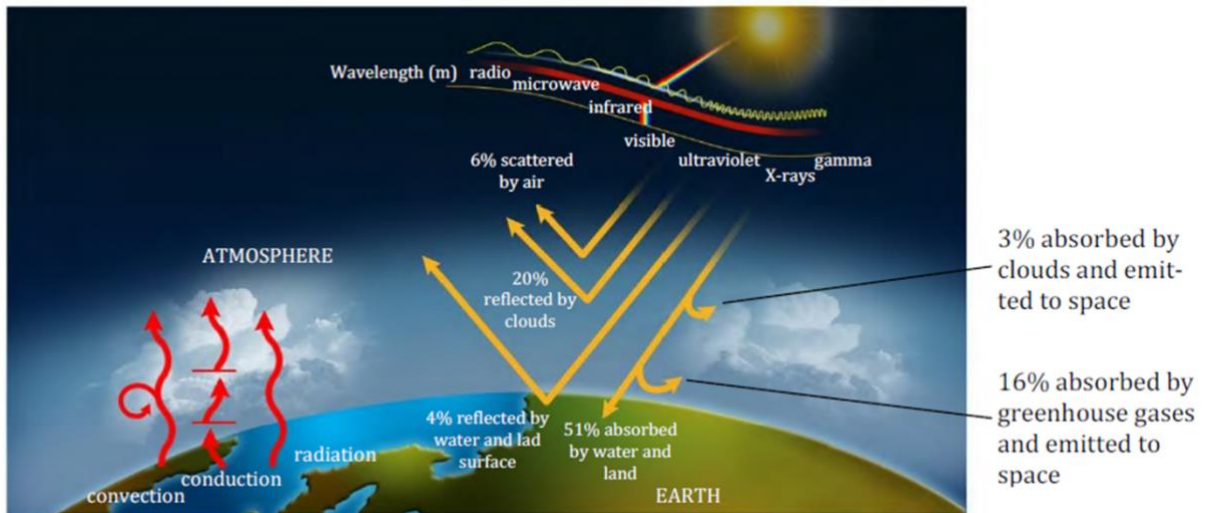


Grade 10: WORKSHEET 1: Processes associated with the heating of the atmosphere.

P.52 in textbook

Refer to the following diagram and answer the following questions: (Diagram p 52in textbook))



1) What do you call the process where heat reaches the earth via sun rays from the sun?

2) When the heat is sent back into the atmosphere from earth's surface, it is called

3) Name three processes where heat from the incoming sunrays are lost before it reaches the earth's surface.

a) _____ b) _____ c) _____

4) Name the factors involved in each of the processes named in question 3.

a) _____

b) _____

c) _____

5) Name the three processes whereby heat is radiated back into the atmosphere from earth's surface.

a) _____ b) _____ c) _____

6) Describe each of the processes names in question 5.

a) _____

b) _____

c) _____

7) Complete the following “balance sheet” for insolation by completing the table:

INCOMING INSOLATION		LOSS OF INSOLATION	
Insolation from the sun	100%	a)	20%
		b)	6%
		c)	4%
		d)	3%
		e)	16%
		TOTAL INSOLATION LOST	f)
NETT INSOLATION(absorbed by land and surface water)	g)		

8) What is directly responsible for heating the atmosphere? The sun OR the earth?