

## SOLAR ENERGY ON THE EARTH ACTIVITIES

Imagine you are travelling from the equator to the North Pole.

- a) What pressure belts and winds would you encounter?
- b) What are the characteristics of these belts?

Where did the following take place on Earth on 21 June and 22 December? Write the answer in your notebook.

- a) The Sun's rays fell perpendicularly
- b) The Sun's rays fell obliquely
- c) There were 24 hours of daylight
- d) There were 24 hours of night.

In pairs, discuss the statement below, and write down the conclusions.

*"It is hotter in the summer because we are closer to the Sun. In winter we are further away from the Sun"*

Do you think it is true or false? Give reasons for your answer. Use the phrases below to help you.

*I think it is true / false because....*

*It is true/ false because...*

*It must be true / false because...*

Copy and complete the words with the missing vowels and explain them.

- a) p \_ l \_ r \_ nt \_ cycl \_ n \_
- b) d \_ s \_ rt
- c) tr \_ d \_ w \_ nds
- d) \_ q \_ t \_ r \_ \_ l \_ nt \_ cycl \_ n \_
- e) w \_ st \_ rly w \_ nds
- f) s \_ b-tr \_ p \_ c \_ l \_ nt cycl \_ n \_

## GEOLOGICAL PROCESSES ACTIVITIES

Answer the questions

- a) What causes rocks to fragment in physical weathering?
- b) What is the result of chemical weathering?
- c) What alters rocks in biological weathering?

What kind of weathering happens in the following areas?

- a) a desert
- b) a jungle
- c) a high mountain area
- d) on the Moon
- e) where you live

Read the statement below, write a short explanation about why this is true. Try to work out what colours are not present in most ancient rocks.

*"Oxidation is a kind of chemical weathering that did not exist on Earth for millions of years"*

Compare your answers with a partner:

- a) What is the difference between sediments and sedimentary rocks?
- b) Why are fossils especially abundant in sedimentary rocks?