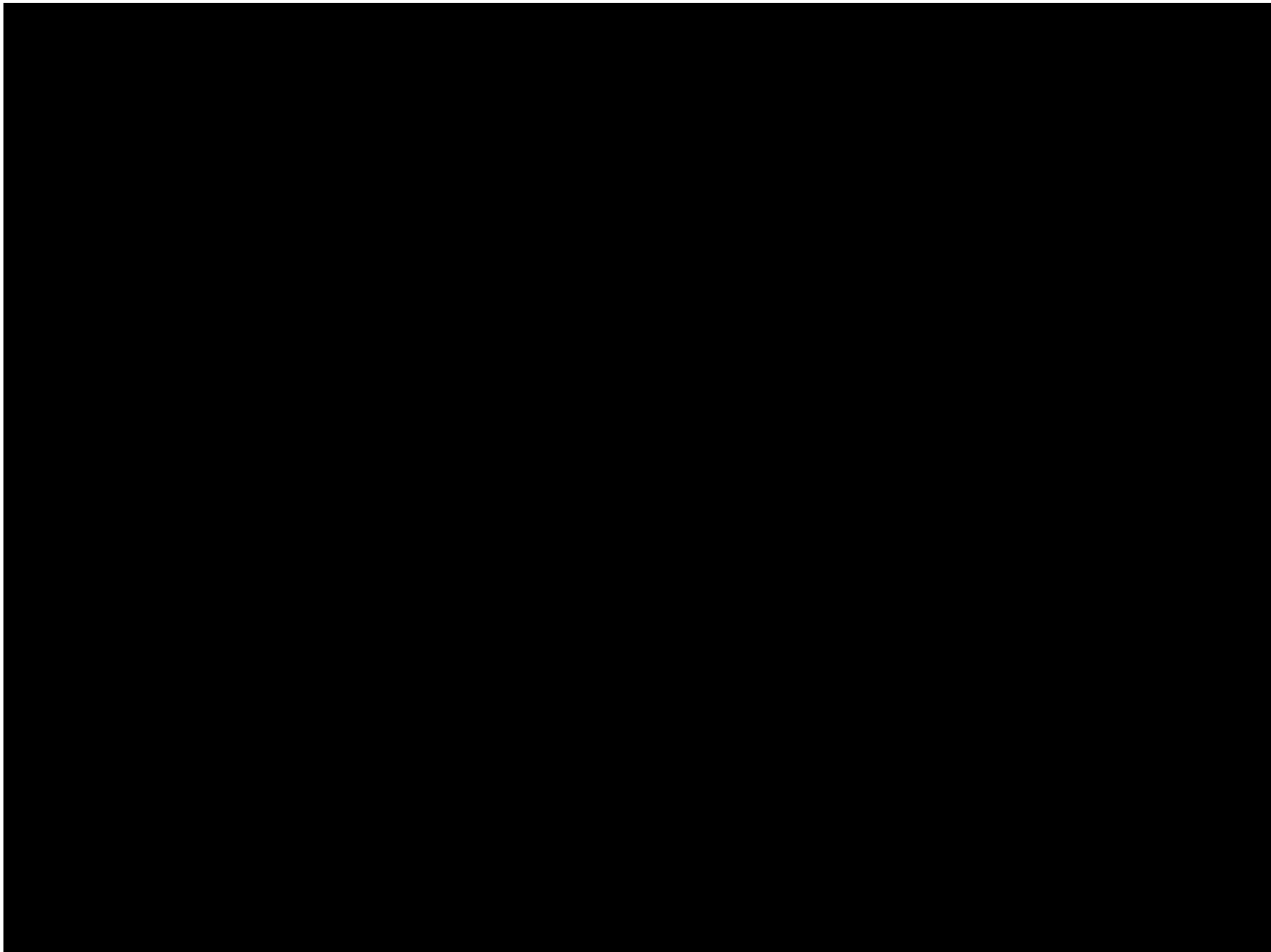




Why does it rain?

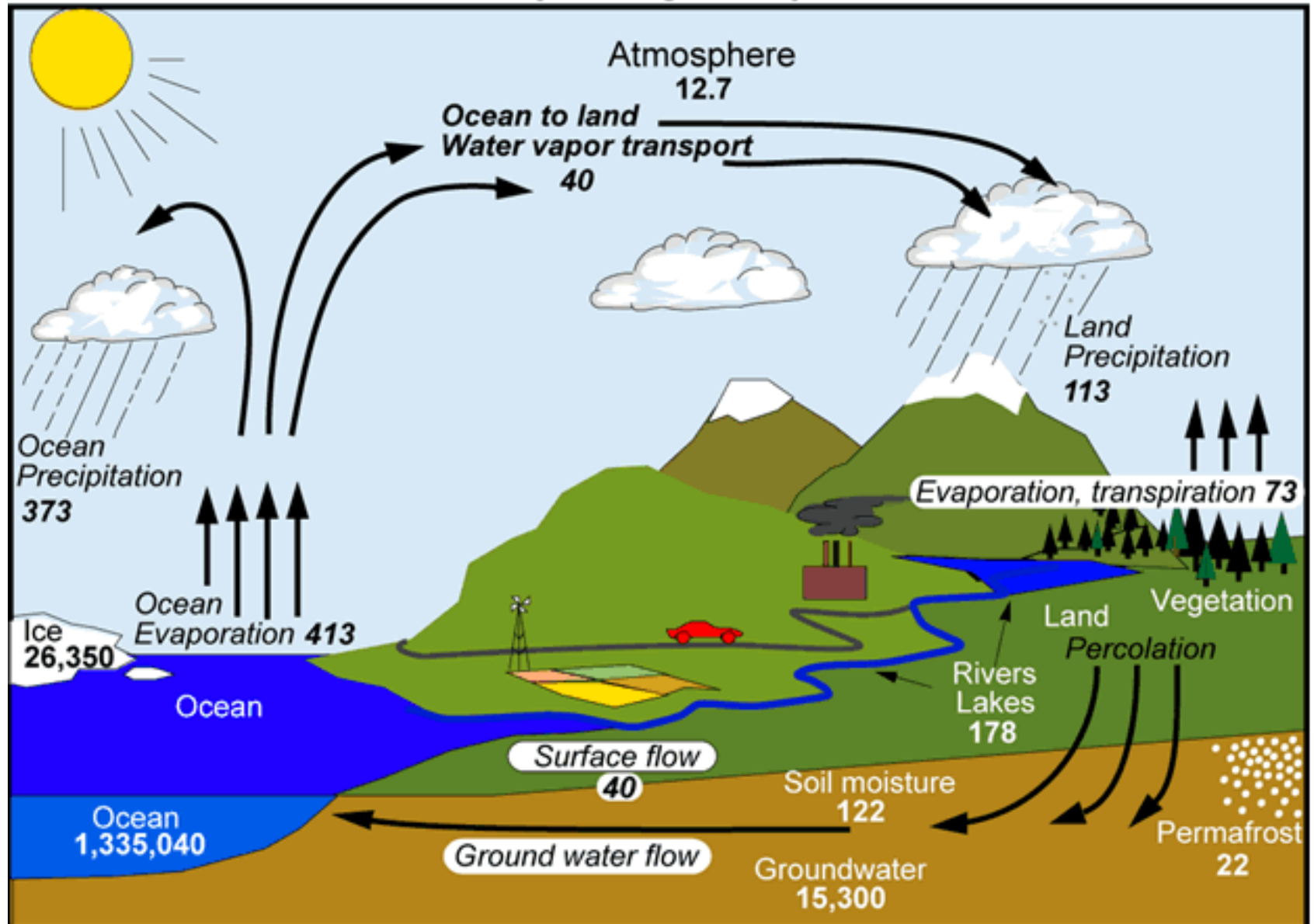


A landscape of rolling green hills under a blue sky with white clouds. The hills are covered in lush green grass, and the sky is filled with large, fluffy white clouds. The overall scene is bright and clear.

Hot air rises, but as it goes up it cools.

As air cools the water vapour (gas) changes into water droplets (liquid) and clouds are formed.

Hydrological Cycle



Units: Thousand cubic km for storage, and *thousand cubic km/yr* for exchanges

Condensation

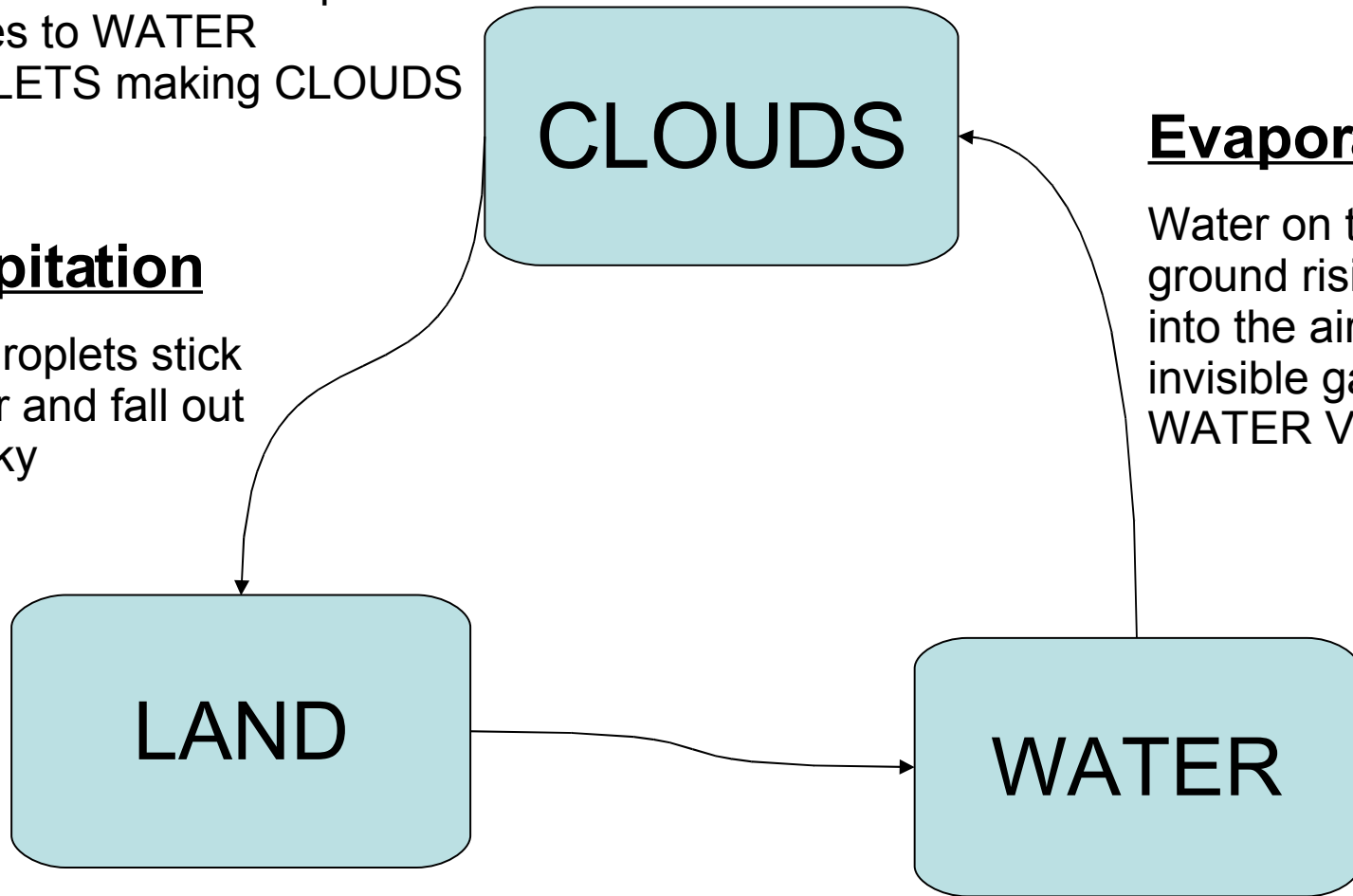
Air cools. The water vapour changes to WATER DROPLETS making CLOUDS

Precipitation

Water droplets stick together and fall out of the sky

Evaporation

Water on the ground rising up into the air as an invisible gas WATER VAPOUR



There are 3 types of rain.

- Convictional Rainfall
- Relief Rainfall
- Frontal Rainfall

For each type of rainfall you are going to fill in the right words and make a diagram.
(Geog:2 page 27)

Convictional Rainfall

When it is a hot day the sun heats up the ground making the water on the ground e_____ and rise up into the air as w_____ v_____.

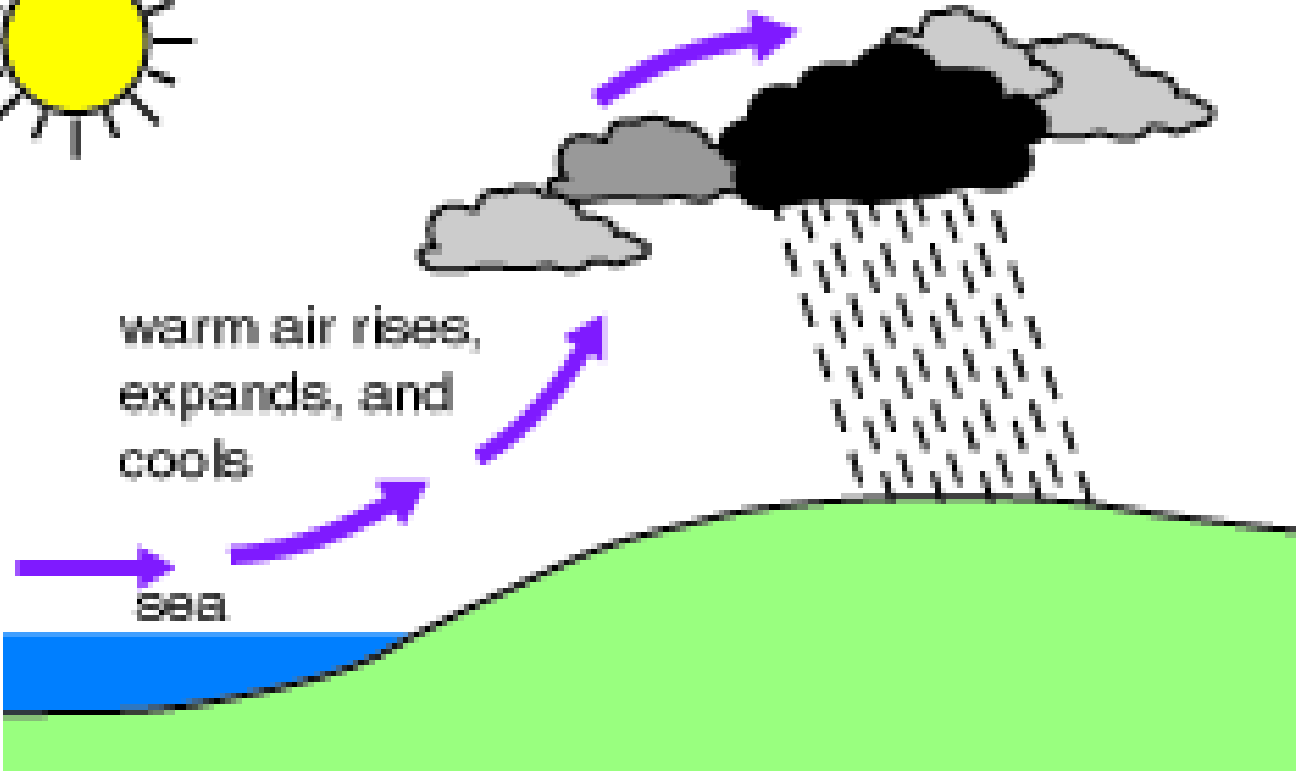
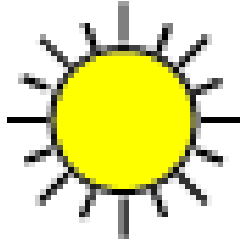
When it gets colder the water vapour c_____ and falls as r_____.

Convictional Rainfall

When it is hot day the sun heats up the ground making the water on the ground evaporate and rise up into the air as water vapour.

When it gets colder the water vapour condenses and falls as rain.

convictional rainfall



warm air rises,
expands, and
cools

sea

Relief Rainfall

When air is blown against a line of hills it is forced to r_____.

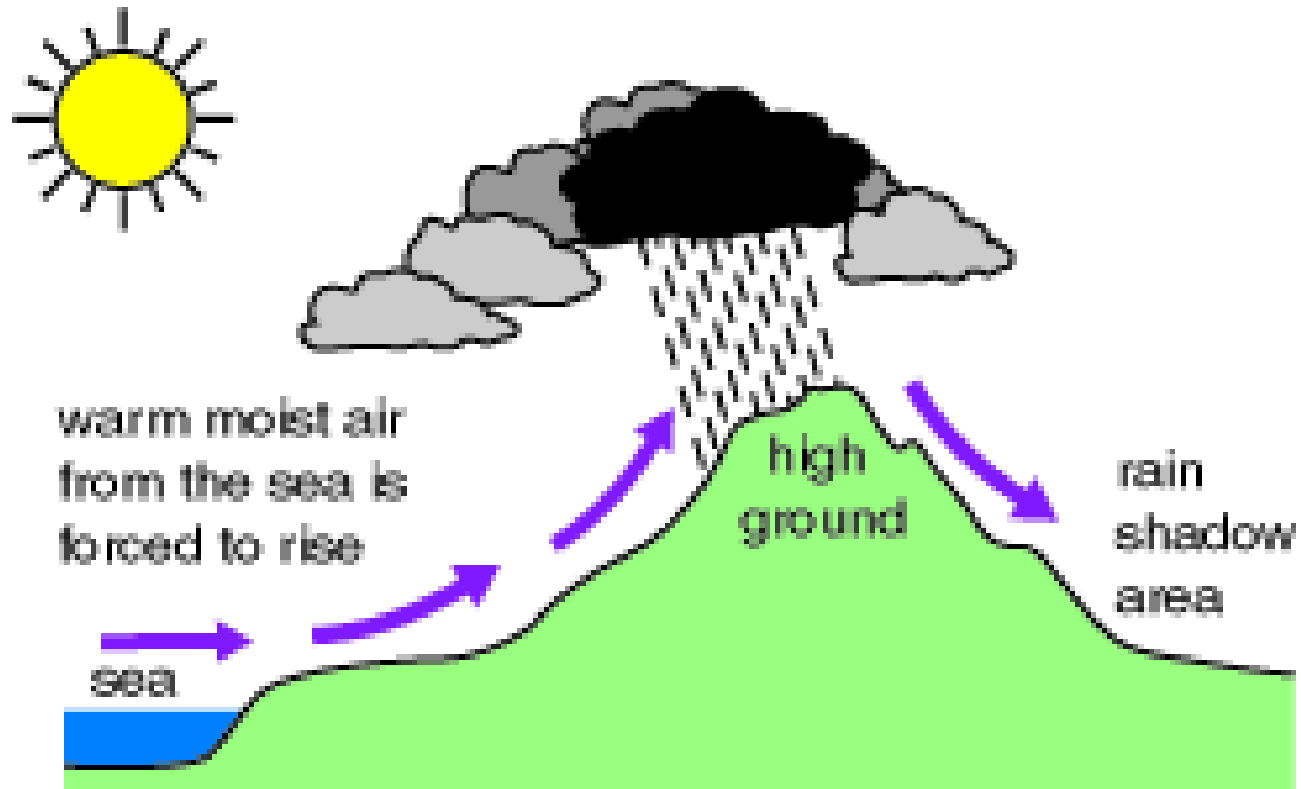
As it rises it c_____. As it cools the w_____ v_____ c_____ forming water d_____ and it r_____.

Relief Rainfall

When air is blown against a line of hills it is forced to rise.

As it rises it cools. As it cools the water vapour condenses forming water droplets and it rains.

relief rainfall



Frontal Rainfall

The air temperature is not the same all over the world. There are warm air masses and cold air masses.

When a warm air mass meets a cold air mass the _____ air mass is forced to rise.

As the warm air goes up it c_____, and the w_____ v_____, c_____, c_____ are formed and it r_____.

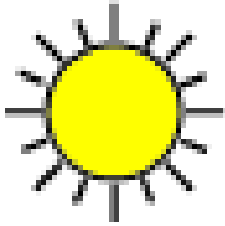
Frontal Rainfall

The air temperature is not the same all over the world. There are warm air masses and cold air masses.

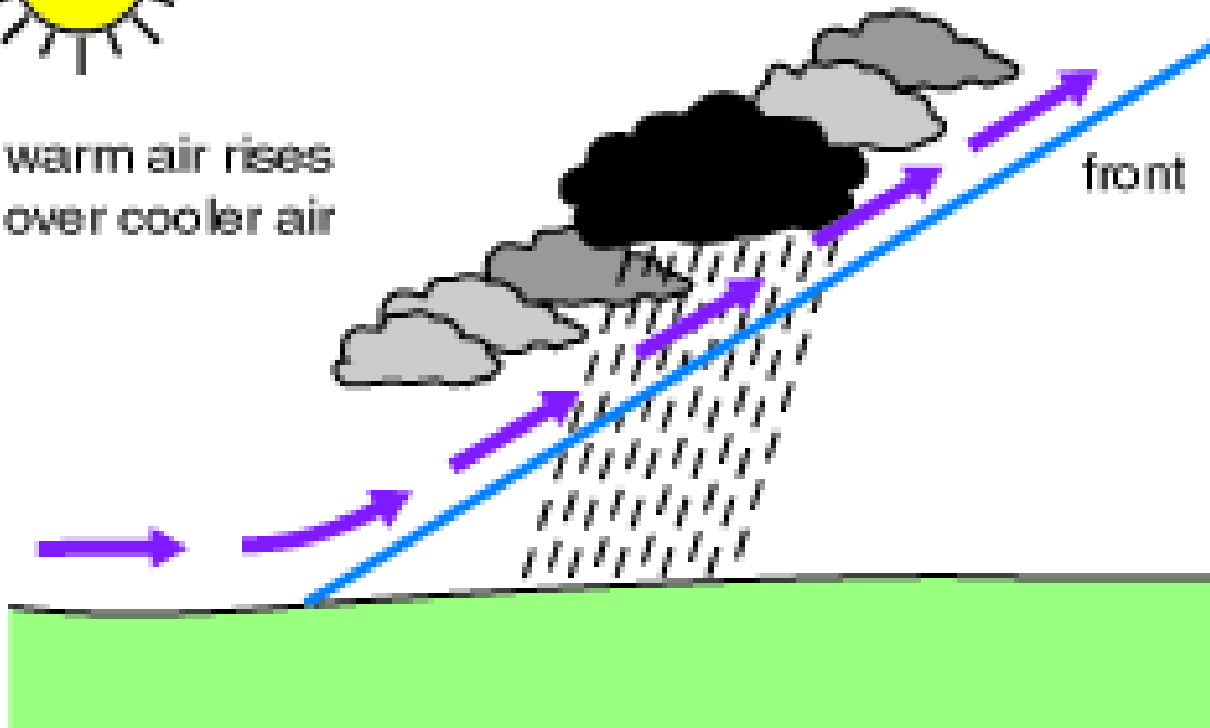
When a warm air mass meets a cold air mass the warm air mass is forced to rise.

As the warm air goes up it cools and the water vapour condenses, clouds are formed and it rains.

frontal rainfall



warm air rises
over cooler air



front