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Opening extract from How the Weather Works

Written by Christiane Dorion

Published by **Templar Publishing**

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where does rain come from? Wind Even though we can't see it, air contains water in the form of invisible water vapour. As air rises, it cools, which turns the water vapour into tiny droplets. These stick to particles of Evaporation Condensation Water is heated by dust and other droplets, growing bigger to make clouds. Wister vapour coals and turns the allo and hims into droplets, which dump When the drops become heavy enough, they fall as Precipitation into vopour. together and make rain, which runs into oceans, rivers and lakes. The Droplets his beat to earth recipitation is the same for all sun shines on the water, warming it so that written tried fight from the other some turns back into vapour. The water cycle which travels upwards to start tration the cycle again. Then! The earth has only a certain amount. of water, which keeps moving

> between the ocean, the air. and the land.

What happens if it is

sunny and rainy at

the same time? Pull the tab to find out!

Frontal rainfall When warm air meets cold air, the warm er is pushed above the cold air. As it rises support in the air turns to droplets

to force air to rise and coal. So what Convectional rainfall When the our heats the ground, the air directly above warms up, then rises. As the air cools water spour turns into droplets, clouds form and it rains.

Types of namial

To make clouds and rain, something needs



Groundwater

Run-off

Wither runs over the land and callects in lakes, rivers and oceans

Too much, too little

Different places on earth have different amounts of rain throughout the year. Some countries have too much and others have too little, leading to very difficult conditions.

Floods

Droughts

Flooding happens if a river rises and overflows its banks after days of heavy rain or melting. snow is objes, concrete and tarmat make flooting worse because the water con't be sharbed by the ground

Draughts hoppen when there is ins ran than expected for arrord menths or own longer storre plants and areads have among techniques to cope with these dry conditions The darking beetle, for example, colects down on its body to drive.



What is lightning?

Relief rainfall

lightning. Lightning heats up

the air, causing it to expand and ollapse rapidly, which produces a rumble of thurder.

Rain, hail or snow?

Did you know that water can be a gas, a liquid or a solid? When it falls from the sky, it can take many forms. depending on how cold it is in the clouds and above the ground You might end up with soaking rain, turnps of holl or pondery standakes



Every minute of the day, short foo million tonnes of rain fall on the curth!

The story of a raindrop

In a thunderstorm, water and ice particles rub against each other inside the clouds creating an electric charge that zaps down to earth as

Experiment

spright on a large knell Foot 3 centimetres of water win the bank Cover the sent with cling from so it is airtight and get a prible on top, above the jar Place the band in a sorne ages for when toys what happens

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Condensation

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Evaporation Water is heated by

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invisible water vapour. As air rises, it cools, which turns the water vapour into tiny droplets. These stick to particles of dust and other droplets, growing bigger to make clouds. When the drops become heavy enough, they fall as rain, which runs into oceans, rivers and lakes. The sun shines on the water, warming it so that some turns back into vapour. The water cycle

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Frontal rainfall

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Groundwater

Precipitation

Droplets fill back to north Protectation in the same for its

writer that their from the stay

Run-off

Water runs over the land and collects in lakes, mers Arainbow

As satisfit passes through my water draphts, it is beet and spill different colours to form a relation Too much, too little

which travels upwards to start

the cycle again. They!

Different places on earth have different amounts of rain throughout the year. Some countries have too much and others have too little, leading to very difficult conditions

Floods

I rise up into the sky, then glide

along with the wind. When I

get cold, I turn into liquid or

ice and float away in the

clouds with millions of other

droplets Usually I spend

about ten days in the air.

and overflows its banks other days of heavy rais or melting

Floiding hoppens if a river rises.

What is

lightning?

In a thunderstorm, water and ice particles rub against each other inside the clouds. creating an electric charge that zops down to earth as lightning. Lightning heats up

the air, causing it to expand and collapse rapidly, which produces a rumble of thunder.

Relief rainfall

it is forced to rise over the top. This cools the

air down cousing rain

Experiment

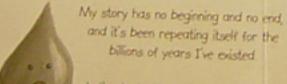
Flace a small, engly in oprophs on a large tax. You 3 cent went of water into the bank Cores the sawl with gling frim to it is periods and per a polyte on 107, above the jar Flace the bowling some spot for a few days what happened

Rain, hail or snow?

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Learn moute of the day, tan fall or the parts!



Let's start with the ocean. Sometimes I like to drift around in there for thousands of years at a time.

When I get too heavy to stay in the clouds, I fall back to earth - and I always end up somewhere newl

