

Boondi's Adventure



IETS Publications



The IL&FS Financial Centre
3rd Floor, Plot No. C 22, G Block
Bandra Kurla Complex, Bandra (East), Mumbai 400 051, India
Phone: 5694 7575/7676, Fax: 5694 7700
www.ilfssets.com

M.R.P. Rs 50.00

ISBN 81-87584-86-6

Earth Explorer

Boondi's Adventure





Contents

Water Poem	1
The Story of Boondi	2
Boondi's Water Book	17
Active Learning	20
Glossary	21



Water Poem

The Earth, you know, is called the Blue Planet
 There is more water than land on it.
 The rivers, glaciers, oceans and seas
 Are as much as land multiplied by three.

Water's favourite number is three
 It appears as water, ice and vapour, you see.
 Heat it and steam starts rising up
 Freeze it - water vanishes, there's ice in your cup.

Water must be clever - it is very old
 It's time the story to you is told.
 Water has been around on this Earth
 From the time the Earth itself took birth.

The water that you drink today
 Has been around for many a day.
 The beauty is that when it's served to you
 It is so fresh as if it were new.

The water that you are about to pour
 Was drunk years back by a dinosaur.
 And the water puddle in which you play
 Could cook rice for your grand kids some day!

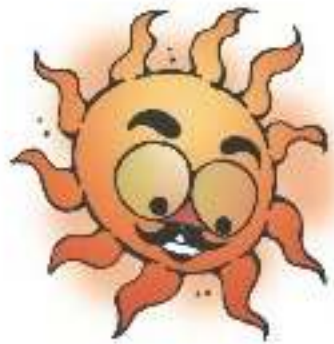


Glacier = River of Ice
 Land area x 3 =
 Area covered by water
 It's = It is
 Its = Belonging to it



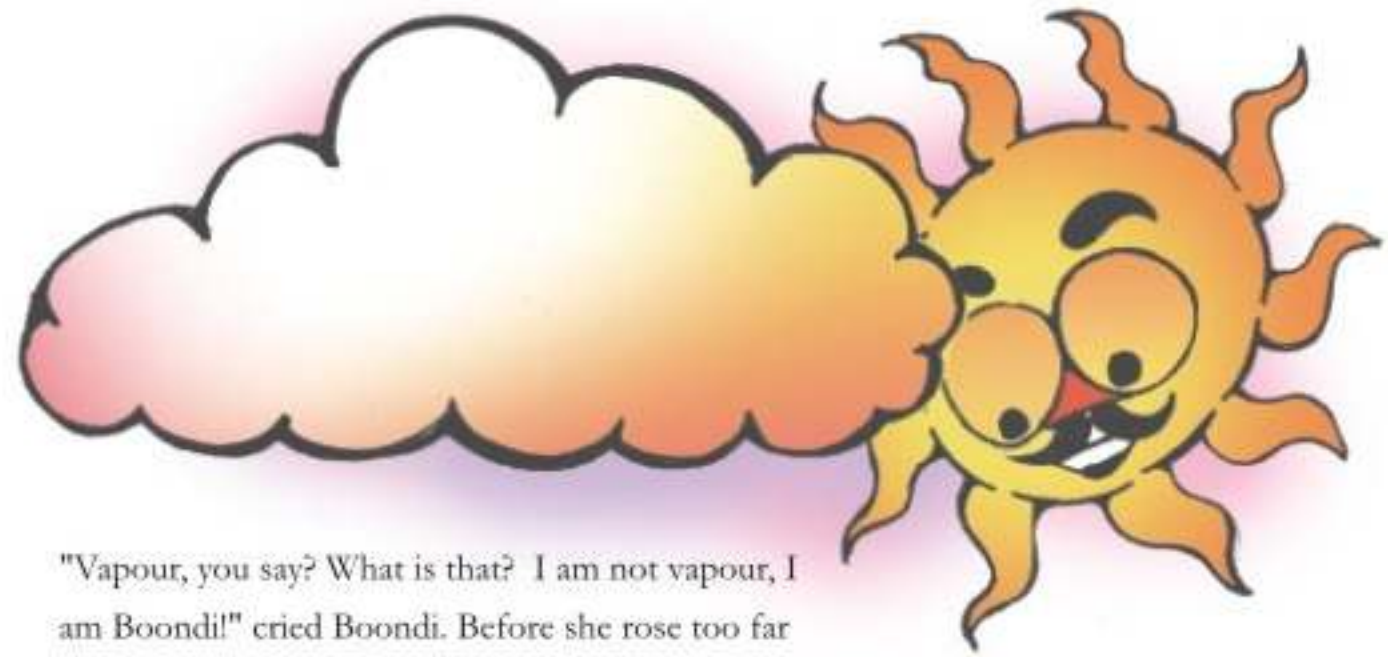
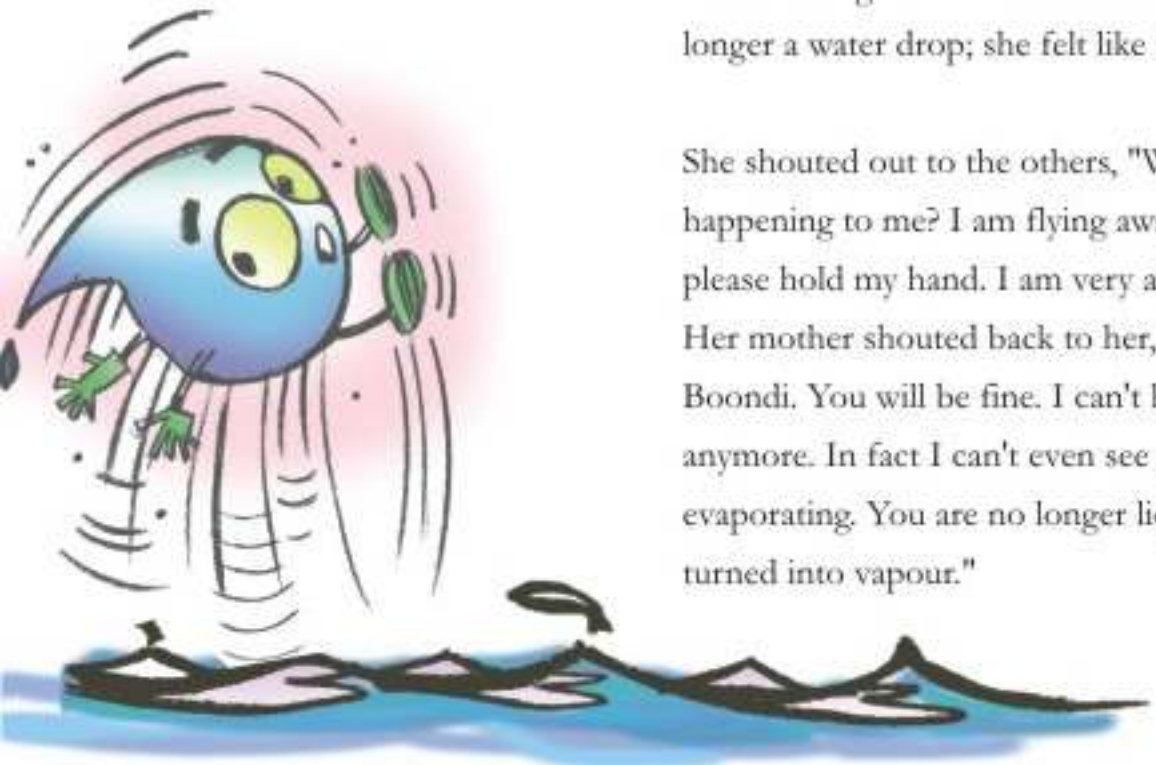
The Story of Boondi

Once upon a time Boondi, a tiny drop of water, lived with her family and friends in the ocean. She thought life was full of wet fun and water creatures. She believed that life would never change. Her mother often warned her of the dangers of wandering too far away from her deep ocean home. "I know the sun shining up there is very attractive, but it is dangerous to go too far," her mother told Boondi. Despite all her mother said, Boondi longed to visit the topmost layer of the ocean.



One bright, sunny, day when the sparkling rays were calling out to her to come and play, Boondi came very close to the surface of the ocean. Suddenly, she began to feel light and found herself rising above the ocean. She was no longer a water drop; she felt like the air itself!

She shouted out to the others, "What is happening to me? I am flying away. Mother, please hold my hand. I am very afraid." Her mother shouted back to her, "Don't worry Boondi. You will be fine. I can't hold onto you anymore. In fact I can't even see you. You are evaporating. You are no longer liquid. You have turned into vapour."



"Vapour, you say? What is that? I am not vapour, I am Boondi!" cried Boondi. Before she rose too far she heard her mother say, "Boondi, don't worry. You are not alone. This happens to millions of other 'Boondis'. It happens to all of us. This is part of our life. You will come back to the ocean soon. Enjoy yourself while you are on this trip."

Boondi felt better after hearing her mother. Yet there were so many questions in her mind. Her biggest question was - what does 'evaporated' mean? She decided to ask the Sun, who now seemed closer to her than her home.

She had always thought that the Sun was helpful and cheerful - it brought light into darkness and warmed her after a cold night. She was sure the Sun would know, because he could see everything from high up where he stayed.

She called out to the Sun, "Hello there! Could you please tell me what evaporate means?"



The Sun replied, "When I, the Sun, rise during the day, I heat up everything. Water becomes gas, which is called vapour. It happens to water in lakes, streams, rivers, pools, seas and even puddles. You will go wherever the wind takes you now, which is why you are rising higher into the sky. It is as if you are in a disguise. Evaporation has done that to you. Go, little one, see what other wonderful things will happen to you."



Boondi was a little scared. At first she felt strange, but then she started enjoying the feeling of dancing in the sky and floating around.



Evaporation:

Evaporation is how your wet clothes dry when they are hung out and what makes puddles disappear. Heat turns water into vapour. Water does not disappear. It changes into a gas and we cannot see it.

Try keeping a plate and a glass filled with water, out in the sun.

SEE: From which does the water evaporate faster?

THINK: Do you know why?

And then the most unusual thing happened.

Boondi suddenly felt cold, perhaps because she was rising high and it is cold up there. Boondi saw that she was turning back into water. She could see her hands and feet coming back. There were drops of water all around her.

She recognised her elder brother. "What are you doing here?" she demanded.

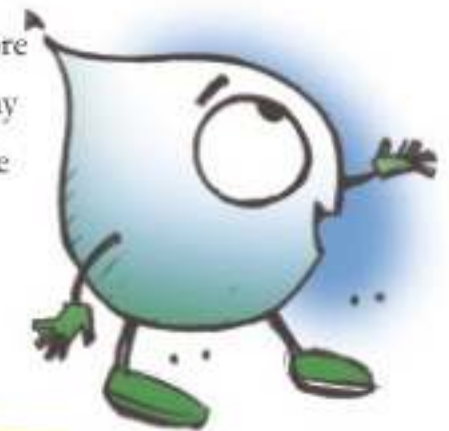
He grinned and said, "Same as you, condensing and becoming water again!"

"C...C...Condensing - what language are you speaking?" Boondi enquired.

"Condensation is when vapour turns into water after it cools. It is cooler up here and so we are turning from vapour to water," her brother replied.

Boondi did not want to give her brother any more importance, but she had to ask, "How will we stay in the sky as water? This is not like our home, the ocean!"

Vapour is also called steam
Demanded = Asked strongly
Enquired = Asked
Don't = Do not



Condensation:

When water vapour in the air cools, it changes back into liquid, forming clouds. This is called condensation.

To see this happening at home, try this. Pour cold water into a glass. You will notice droplets of water forming on the outside of the glass. Don't worry, the glass is not leaking! The water on the outside came from the air. Water vapour in the warm air turns back into liquid when it touches the cold glass.

THINK: Will there be more droplets seen on the glass in warm or in cool weather?