

Pahatchi hatchi

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D/2014/M.Dielemans, Editor

Dear Colleagues,

Dear Parents,

In this story children will discover that the families of renewable energy are growing. After the sun and wind, it is now the wave's turn to give its strength producing energy called "Wave".

Children will be aware of the fact, that climate change allows animals that have never met to now live together. They will discover a new species of bear unknown to them by crossing a grizzly bear and a polar bear together.

This story will also let them discover the polar tundra in Summer.

Their imagination will finally be challenged to search for a plant "Antytschoum", which will cure Professor Atchoums sneezes.

Their imagination will finally be solicited by the search for a plant "Antytschoum" to cure the sneezes of Professor Atchoum ...

In recent days, the whiskers tickle the residents of Rabbitville. Sounds of sneezing are ringing everywhere.

- Achoo! Achoo! Achoo! ...

- "It's because of Professor Atchoum!" sighed Ms. Jolie, the village teacher. Every time he thinks, he sneezes and contaminates the students! It is imperative to find a solution!

Overwhelmed and sneezing too, she closed the school for several days and went home.



On the way home, she panted an old tree with a hollow trunk and her face suddenly lit up.

Ms. Jolie remembered a story that her grandmother told her:

"A long time ago in the village, there was a very smart doctor who was also very selfish by not wanting to share his knowledge with his young colleagues had buried all the secrets of his remedies somewhere in the forest. On his way back to the village, he was unfortunately eaten by a fox.

No one ever found his hiding place. Little by little in Rabbitville the old doctor was forgotten and his effective remedies."

- And what if I find it? thought Mrs. Jolie. The old doctor had to surely have a cure for sneezing! Maybe he hid the formula in the hollow tree.



Because she felt her idea was good, Ms. Jolie inspected the forest for several days putting her paw into each tree. While ruffling her smooth hair, she only stopped to nibble on the carrots that she brought in her backpack.

Back in the village, everyone had their nose in Kleenex and no one noticed she was gone. Even her friends, Daredevil, Pipebreaker and Doctor Shrimp were too absorbed in their work to miss her.

It does not matter! Alone and tired she continued to search, digging in each hollow tree ... suddenly, her hand struck something weird!



So excited by her discovery, Ms. Jolie jumps for joy and stumbles over the roots of an old tree and fell flat on her face.

- Ouch! Ouch! She sputtered while getting up.

So curious to see, she did not even brush off the dirt on her but again plunged her paw in the hole of the tree. With all her might she pulled out a small rusty decorated trunk.

She used her brooch pin as a key to open the trunk...



- *“Oh! The secrets of the old doctor!” she exclaimed. She discovered many rolls of paper tied with a ribbon all arranged in the trunk.*

Immediately, Ms. Jolie began to read.

She read so much and with so many difficult words that her eyes slowly closed her head fell onto the old chest.

Fighting not to fall asleep, she continued reading ... Suddenly she noticed a drawing of a plant with two magic words besides it: "Antytschoum medicinalis"

- *"Antytschoum", here is the remedy against "Achoo"! she yells.*

Returning the old chest back inside the hollow tree, she only kept the one scroll with the magic words and took it back with her.

As she passed her friends she hesitated, but because she was too dirty and upset by their silence she went home to study her cherished document.



Ms. Jolie's heart skipped a beat when she read about the rare plant. It only grew during the summer months in the polar regions where her friends Daredevil, Pipebreaker and Doctor shrimp had already taken her on an expedition.

- *They are too busy to go with me so I will have to fend for myself! she thought ...*

and without thinking too much, she packed up a large backpack with warm clothes and headed off to the airport.

On her way, she passed under the window of Professor Atchoum, and she changed her mind.

- *No! For the sake of the planet, it is better to take a boat!*

So excited about her trip, she did not even notice the stranger who was carrying a huge surfboard and knocking at the window of Professor Atchoum's laboratory.

- *On the way to the Far North! she yells, as the boat's siren sounded to announce the departure from the dock.*



While Ms. Jolie was sailing into the cold, Professor Atchoum was sneezing continuously and wondering how to make more renewable electricity for Rabbitville. The sun and wind were already working a lot, but that was not enough for everyone. For some time now, he was considering using waves force from the sea, but really did not know how.

He entered into his laboratory, where there were various pots with midst coming out, many open books and the stranger who had just arrived.

Meticulously rubbing his whiskers, he inspected the magic board which seems to dance with the rhythm of the waves and on which some try to stand.

- Achoo! Achoo! Achoo, leaping suddenly.

Then, forgetting his visitor, he began to scribble a funny drawing on the whiteboard of his laboratory. It looked like a coil of planks.

- This scientist is strange! mused the stranger. After a long moment of silence, he decided not to interrupt Professor Atchoum and leave quietly on tiptoe.

Accidentally his cumbersome board knocked over many pots. Despite the commotion, Professor Atchoum does not flinch due to his concentration on his calculations.



- *It's chilly here! Those mosquitoes are annoying! said Ms. Jolie when finally docking.*

Eager to find the Antytschoum, she darted perky through the immense polar tundra covered with a carpet of moss and tiny colorful and fragrant flowers.

But point of Antytschoum around her!

So curious, looking sometimes to the right, sometimes to the left, Mrs Jolie walked away, dangerously, farther and farther in the tundra...



Exhausted and harassed by mosquitoes, she finally looked up and didn't see the boat anymore.

- I'm careless, I must go back! she thought.

Believing she was going back the way she came, but instead she went in the opposite direction. This is because there are no landmarks in the tundra also the sun shines even during the night as well as the day.

She walked for a long time at a brisk pace, ...

Suddenly, without warning a strong polar wind "Piterak" woke up, sweeping away everything in its path.

- I am lost! she moaned exhausted.

Then struggling with all her strength against that wind, she dug a very little uncomfortable burrow so the wind would not carry her away. It was hard to dig since the ground is deeply frozen even in summer months.

As best as she could she huddled inside, regretting that her explorer friends Breakneck, Reckless and Doctor Shrimp weren't by her side.

- They at least, would have already found the Antytschoo in this inhospitable region ..., she sighed.



Piterak blew for several days before sleeping again.

*When at last, aching all over and hungry, Ms. Jolie was able to get out of her icy prison.
A frightful noise close to her bristled her hair up.*

- Grrr ! Grrr ! Grrr !

A bicolor bear growled ferociously few meters from her.

*Terrified, she closed her eyes and froze into a statue as her grandmother told her to do
hoping that the bear would go away without eating her!*



Cautiously, after long endless minutes without moving, Ms. Jolie dared to open one eye ... the monster was moving away.

Shaking of fear, she took her computer out of her bag, snapped a picture and sent it just as it was to Professor Sneeze without any message ...

Too busy building his sea serpentine, Professor Sneeze paid no attention to it.

Little by little calming down and alone at the end of the world, Ms. Jolie examined the photo.

- It's all blurry, but it's still weird! She thought. It looks like a brown and white bear! Is it a grizzly or a white polar bear?

Not knowing she mixed up the two names and called this unknown species "Pizzly" then she went on her way in search of Antytschoo, the purpose of her trip.



Continuing on her way she crossed paths with a handsome polar hare whose fur was beginning to whiten and thicken for Winter.

*- Could you tell me where the Antytschoo medicinalis are growing, please?
politely asked Ms Jolie.*

A little surprised by this odd question, the hare rubbing its whiskers like Professor Sneeze answered:

- Antytschoo ? Antytschoo ? I do not know that word!

Proudly Ms. Jolie then opened the roll of the old doctor and showed him the drawing of the plant with magical powers.

*- Ah! Ah! Here, this plant is called "Pahatchi hatchi."
You can find it wherever the dual color bear lives. Follow his footsteps!*



Not very assured and ready to change herself into a statue again if she hears the slightest suspicious growl, Ms. Jolie set off on her way. Professor Sneeze intrigued by the blurry photo decided to join her, without her knowing it yet.

Breakneck, Reckless and Doctor Shrimp, harnessed with all the necessary equipment to test the new sea serpentine, were also coming along.

*- Pahatchi hatchi, stop hiding you! Pahatchi hatchi, come and show yourself!
Ms. Jolie continually kept saying to give herself courage.*



By the foot of a rock alone, sun bathing under the white sun of the late polar summer, Pahatchi hatchi finally appeared to Ms. Jolie.

Forgetting all prudence, she ran to it. At the same time a low growl froze her hair and instantaneously her into a statue again.

- Grrrrrrrrrrrr! Grrrrrrrrrrrr! Grrrrrrrrrrrr!

Pizzly was snoring hidden behind the rock!

In this unique situation and lost in the tundra, Professor Sneeze, Breakneck, Reckless and Doctor Shrimp find Ms. Jolie.

Surprised after hearing the sneeze ... Ms. Jolie trembling, opened her eyes and rushed into the arms of her friends.

Quickly, they dug a burrow to hold the board away from the bear.



Rubbing his whiskers as usual, Professor Sneeze first scolded Ms. Jolie for coming alone which was not smart and said:

- This bear is weird! Let's dig tunnels in the ground to get close to him without him seeing us!

Crawling underground in this deeply frozen country, the five friends now very close to Pizzly, could not believe their ears. The bear was snoring in his sleep.

*- A white Daddy, in this cold country they would laugh at me!
A brown Mommy, in the hot country they would not find me pretty!
And my brown legs do not catch any seals ...*

Panicked by what he had just heard Professor Sneeze exclaimed:

- It's impossible! This bear is lying! It's impossible! Brown bears and polar bears have different territories. It is impossible for them to meet!

The handsome white hare which followed Ms. Jolie, is now mixed into the group and without introducing himself, quickly explained :

*- The climate is changing here! There are a lot of changes.
Among other things, the Summer has become warmer. Brown bears come to discover this beautiful country and they meet white bears who they find attractive. Sometimes it's the opposite. Polar bears are hungry and in search of food, they venture to the land of brown bears.*

Then he went away as mysteriously as he had appeared.

Rubbing his whiskers, Professor Sneeze said:

*- It's serious this climate which is changing! We absolutely must do all what we can in order so it doesn't change! My new invention to produce energy without warming the climate, will be very useful I think!
Let's go back to Rabbitville!*



Before they all start their way back, Ms. Jolie showed her friends the roll of the old doctor. She explained to them that it was absolutely necessary to harvest seeds of Pahatchi hatchi, "the Antytschoo" with magical powers and bring it to Rabbitville so that they can grow it there.

But just as she would finally achieve her goal, the bear woke up stretching and crushed the rare plant with all its weight.

Breakneck pulled Ms. Jolie by the leg and all of them took running for the boat... Big tears filled the eyes of Ms. Jolie, but saving climate was more important.

When seeing this, Professor Sneeze with emotion, had difficulty not to sneeze.



- *Do you plan to go back to Rabbitville by sailing on the ocean with these boards? Asked Ms. Jolie anxiously to her four friends. She watched them prepare five surfboards on large stones used as beach not far from the boat. Me? out of the question, I take the boat! She said.*
- *No! No! Atchoo! Atchoo! said Professor Sneeze very excited. Make yourself useful Ms. Jolie! Help us to tie these boards one behind the other with this mechanism of my invention!*

A little puzzled, Ms. Jolie did so without saying anything and soon, a long sea serpentine of five boards connected by a sophisticated mechanism took shape.

Sneezing with emotion, Professor Sneeze helped by his friends pushed it into the ocean. Immediately the waves monopolized it, jostled it and made look liked it danced.



- *What a brilliant idea! exclaimed Ms. Jolie understanding suddenly the invention of the scientist.*

The wind makes turns the big mills and produces wind energy.

The sun's rays hit on solar panels and thus produces solar energy.

Now the waves are also working!!! And the sea serpentine transforms their movement into electricity ...

Ms. Jolie looked for the word to explain "wave", but she did not know it.

Doctor Shrimp came to her rescue:

- *Wave power, it's easy!*

Ms. Jolie was so happy that the waves are now a part of the family of renewable energy, preferred to remember just "seas serpentine" because her mind was elsewhere.

All night under the sun which there never sets, the five friends watched over the "seas serpentine" dancing to the rhythm of the waves and producing energy. But when Professor Sneeze sneezed, in unison, they said "Pahatchi hatch! Sure! We shall find you! Another time "



Educational note:

Introduction:

- After reading the story, show the children a small roll tied with a ribbon (pdf to print, roll and tie) and ask them to guess what it is.

Answer: This is a copy similar to the old roll of the doctor.

- Have the student open the roll and show to the class the drawing of the Antytschoo medicinalis

- Hang the drawing up and let each child tell what they remembered about this plant.

Follow-up activity:

- Now the teacher adds on the drawing of the Antytschoo a brown bear's paw (pdf to print and to cut) and let the children speak.

If necessary, ask a few questions:

- . Whose paw is this?
- . What is the name of this bear? (Pizzly)
- . What is special about him? (it has 2 colors)
- . What does he do?

.....

- When the name "Pizzly" is said, take down the paw drawing and replace it with the picture of the entire bear. (pdf to print) and write its name.

- Then ask the children: Who is its father? (a white polar bear) Who was its mother? (a brown grizzly bear)

Place the drawing of the grizzly (pdf to print) and the drawing of the polar bear (pdf to print) above Pizzly to form his family tree.

- Let the children tell what they know about the polar bear. Write the answers next to the drawing. Complete if necessary:

- . It lives on the sea ice, in the tundra in very cold regions near the North Pole.
- . It swims well.
- . Its skin is black, its fur looks white, its hair is transparent.
- . It mainly eats seals and sea animals, but in summer, when he is very hungry, he will also eat birds and their eggs, berries and algae.
- . It has a thick layer of fat that protects it from the cold.

- Do the same with the grizzly:

- . It lives in forest and mountainous areas.
- . It swims well.
- . Its fur is brown, sometimes black or blonde.
- . It spends his winter sleeping in the warmth of a den.
- . It eats everything it finds which he can chew (plants, berries, roots, fish, insects, small or large animals). It is omnivorous.

- With its 2 colors, Pizzly looks like both its polar father and its grizzly mom. So why does Professor Sneeze think Pizzly is lying?

Answer: Because normally polar bears and grizzly bears live in different regions and should not meet each other. Professor Sneeze repeats what is written in his books.

- How is it possible that daddy and mommy of Pizzly were able to meet? What did the white hare say?

Answer: The climate is changing and warming up. Everything is upset. The bears are changing their habits and territories, thus meet from time to time in the summer.

- What does panicked Professor Sneeze suggest when he understands that it is global warming causing the changes in the bears?

Answer: He believes that it's absolutely necessary to stop the climate change. He invites his friends to test his invention with him to produce energy without heating the climate, and it is from the waves.

- Have the children explain what this invention looks like: surf boards connected by a special mechanism that move to the rhythm of the waves, thus producing electricity.

If possible, show the children a small descriptive video see below for examples:

<http://www.youtube.com/watch?v=slawyq4PXxE>

<http://www.youtube.com/watch?v=2Q7P-w5BGdw>

<http://www.youtube.com/watch?v=mcTNkoyvLFs>

- Waves are not the only thing that can produce energy without heating the climate. Ms. Jolie spoke of two other well-known ways. What are they?

Answer: The wind and sun

- The sun, wind and waves are used to produce energy without heating the climate. This energy is called "renewable energy". Have the children repeat these words!!!

And what can we do to stop climate change?

Let the children tell some of the things they are already doing with their parents, and finish by saying "we need to save energy."

- To make discover 10 easy actions

<http://www.contespedagogiques.be> (Click on Actions)

Conclusion

If we help Professor Sneeze to prevent climate change by saving energy, we become like him a "Sea Ice Ambassador" and we can put a snow star next to our signature

<http://www.contespedagogiques.be> (click on Ambassador)

"Enthusiasm is the basis of all progress"

Henry Ford

Dedicated:

- *To Jerome recently born, hoping he'll discover a planet where life is good;*
- *To Charlotte, Simon, François and all the children who, through their actions to save energy have become or will become "Sea Ice Ambassadors";*
- *To my close friend Duda from Upernavik with all my love;*
- *To my polar big brother.*

A HUGE thank you

for their invaluable help

- *To Gauthier Chapelle, a doctor of biology, co-founder of Biomimicry Europa AISBL;*
- *To Alain Hubert, explorer and President of the International Polar Foundation;*
- *To Nathalie Vanisacker, agronomist, chief scientist of the International Polar Foundation.*
- *To Thierry Touchais, Executief Director of GoodPlanet Foundation, Paris, France.*
- *To Alexandra Hamilton, American student in Geography and Education*