

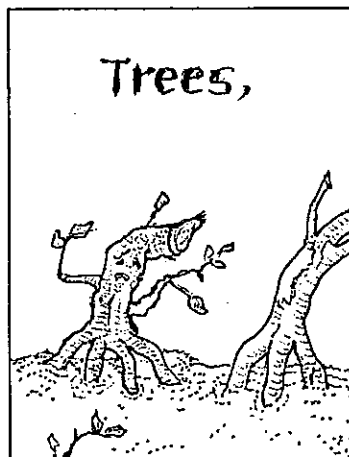
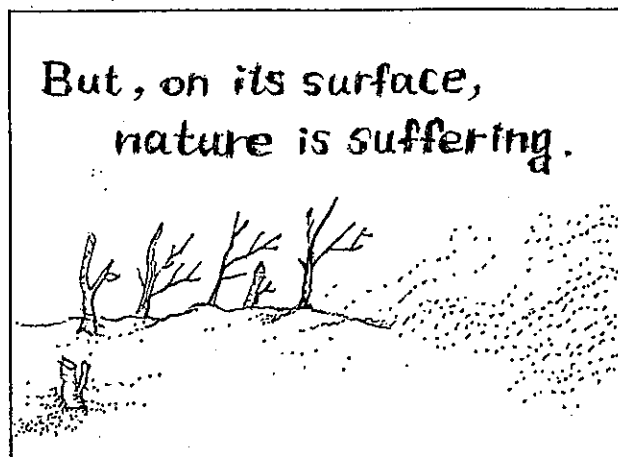
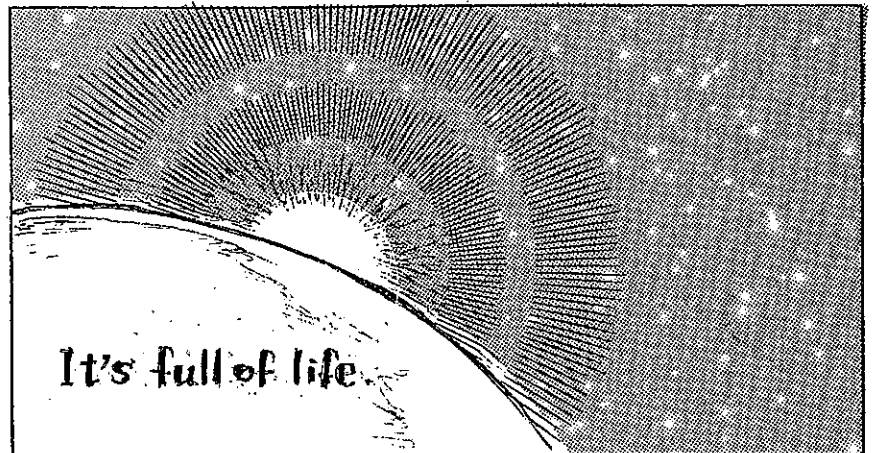
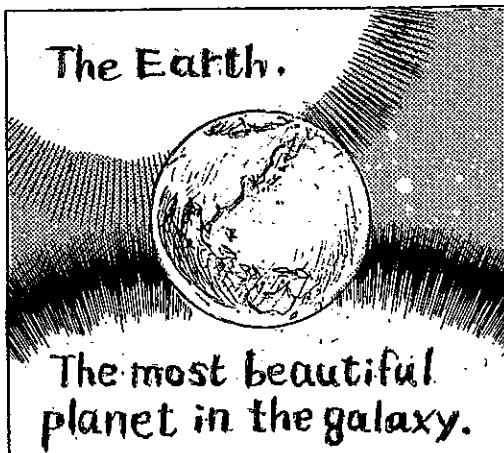
GURU GURU

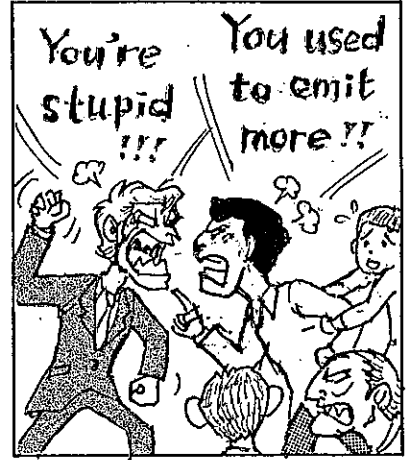
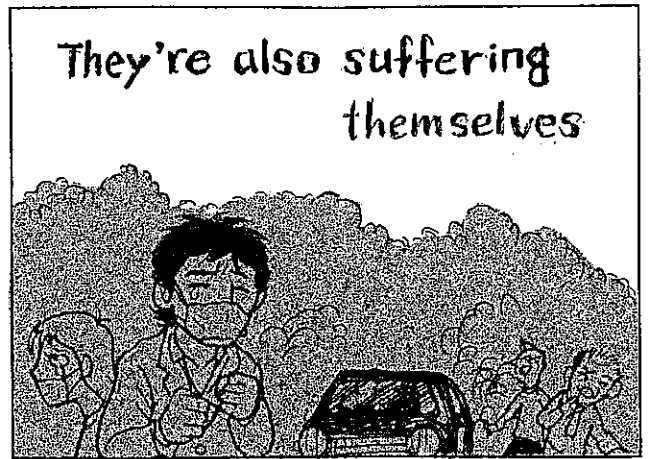
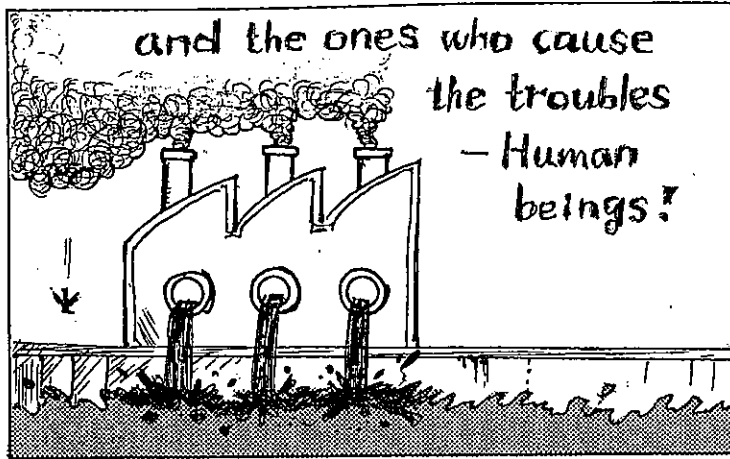
/guru guru/

~ What's ESD? ~

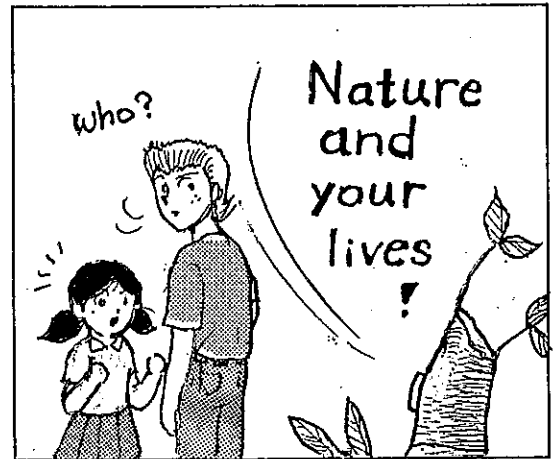
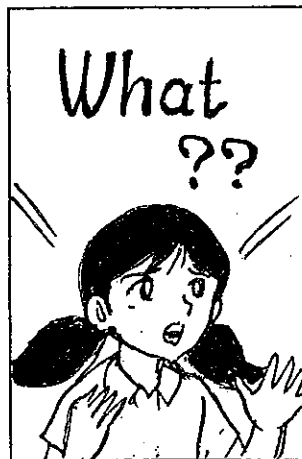
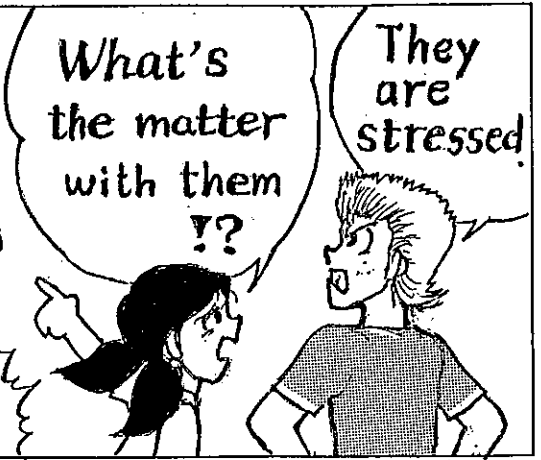


KITAHARA RYUJI

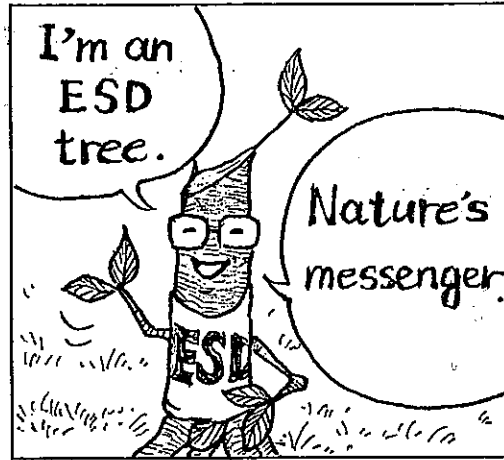
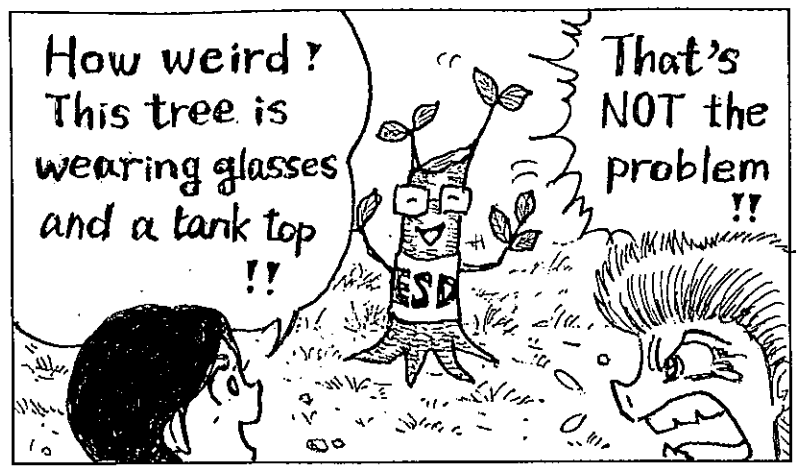




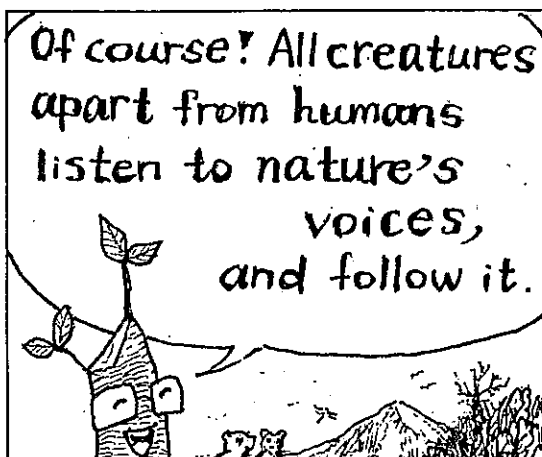
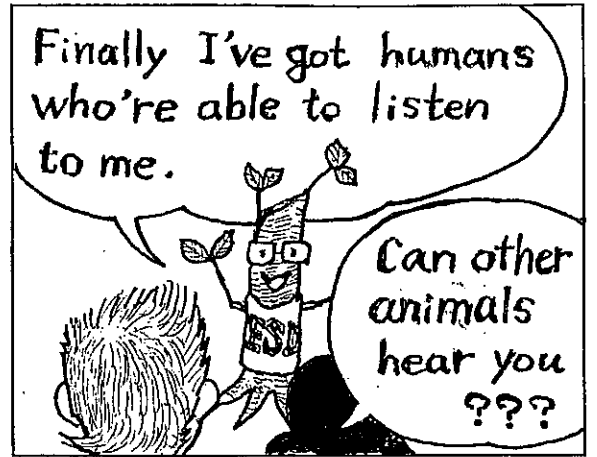
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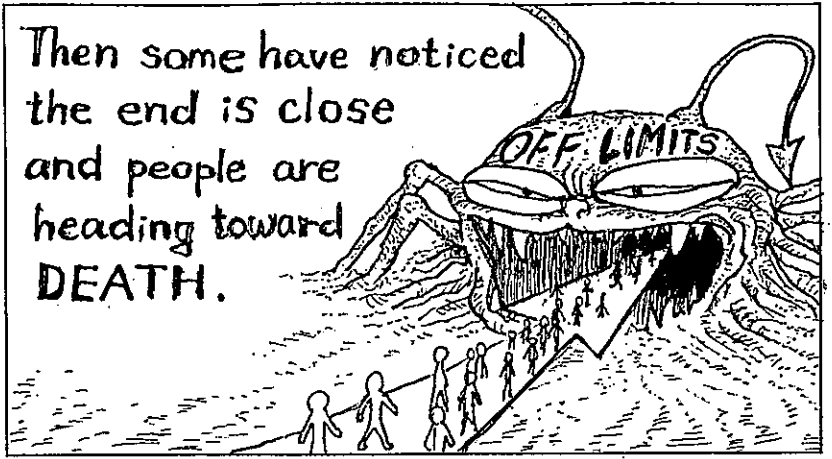


5

But, recently, more and more people have started to listen to us.



Then some have noticed the end is close and people are heading toward DEATH.



The end !?



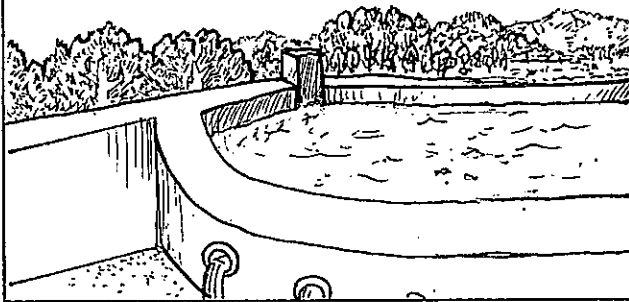
You humans have developed your society by making use of nature.



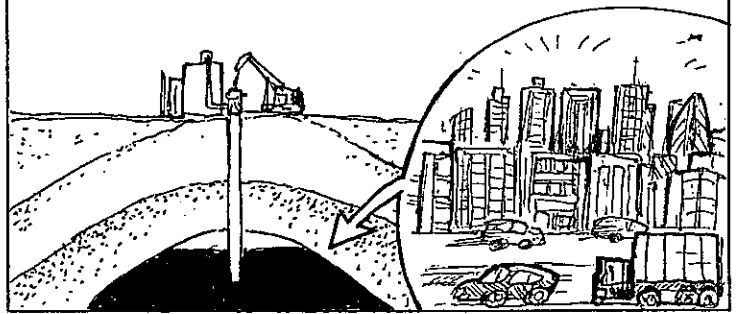
You cut trees to build your houses.



You made artificial lakes to get water.



You have used a lot of oil to sustain your urban life style.



As a result, human society has developed greatly!



The number of humans has been increasing tremendously!!



More and more oil has become necessary.

But oil is running out.

Oh! That end!

What is coming to an end is not only energy.

The more people there are, the more houses and food are necessary.

We're hungry!!

We need a place to live in!

To build houses and fields, more and more trees are cut down.

8

Land without trees cannot hold enough water.

The places which used to be forests have become deserts.

The deserts are spreading.

We can't live in the desert.

It's a death march.

How can we stop it?

9

Put your hands on your chest.

You can feel how nature works.

The air you breathe

enters your lungs,

and goes to your heart,

to all over the body,

back to the heart,

then returns to the lungs.

10

※ In Japanese 'Guru guru' means spinning round.

Guru Guru ??

It means 'cycle'.

Is 'cycle' a nature's way?

Yes !!

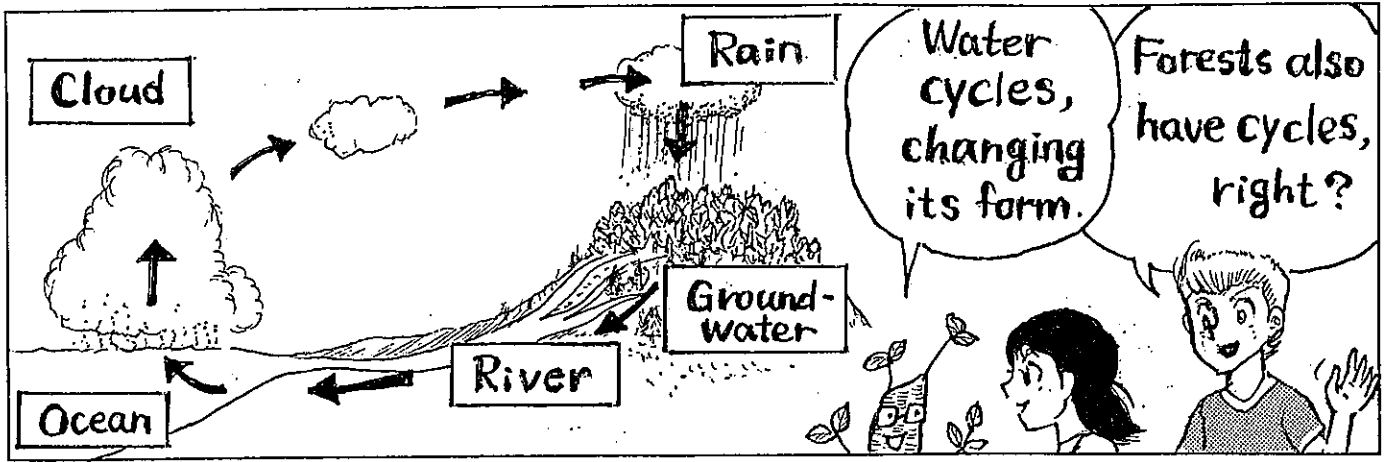
You live on oxygen. Where does it come from?

I studied that!

Trees extract it out of the carbon dioxide we emit.

Wow!! This is Guru Guru, too.

Trees live on not only carbon dioxide but also water. That is Guru Guru, isn't it?



Forests!?

Yes!!

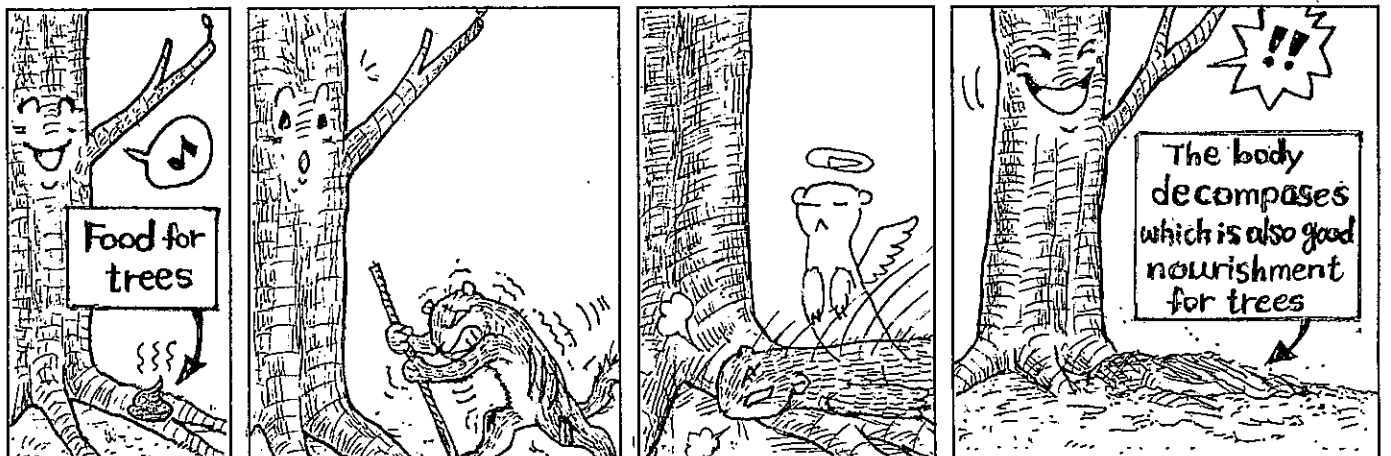
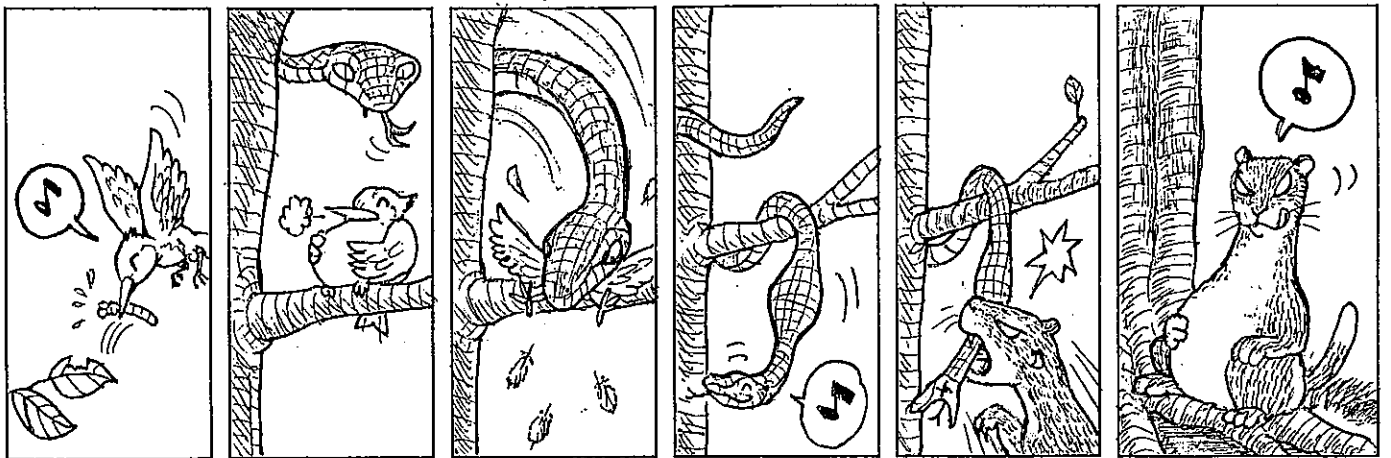
First, trees grow!

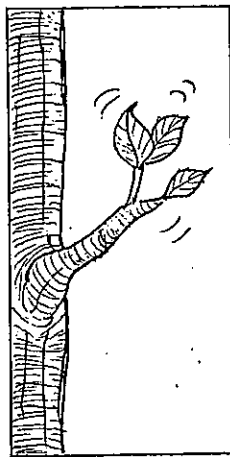
Growth

Growth

Second, creatures eat the leaves!

12





Then, it starts again.

GURU
GURU
GURU

I know that. It's the food chain.

I believe you understand now that there are a lot of Guru Guru in the world!

Yes! Some are big, Some small!?

And I was surprised to know each cycle is part of complex network.

That's right! Nature is made up of countless Guru Guru cycles.

14

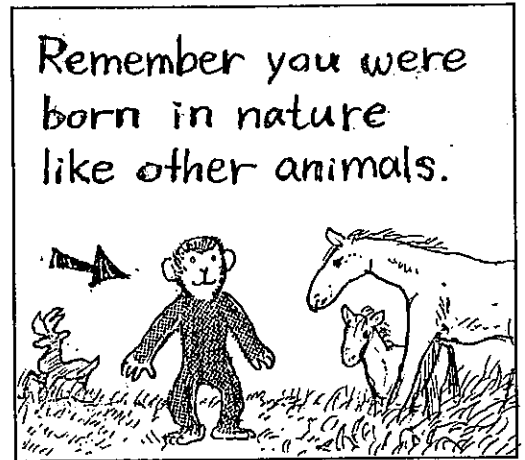
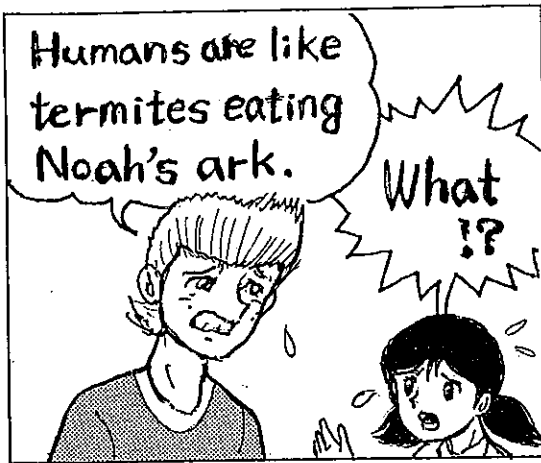
Guru Guru cycles keep nature what it is.

But, we humans broke the links to develop our society.

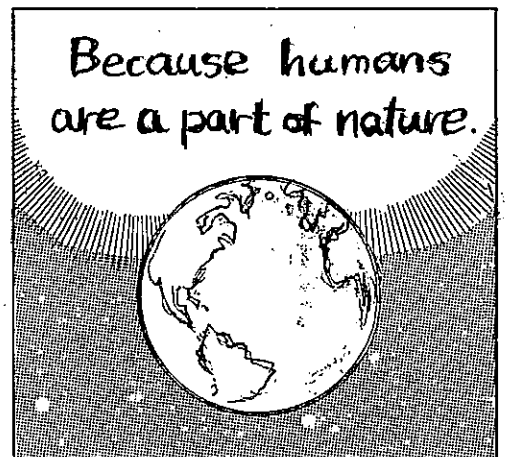
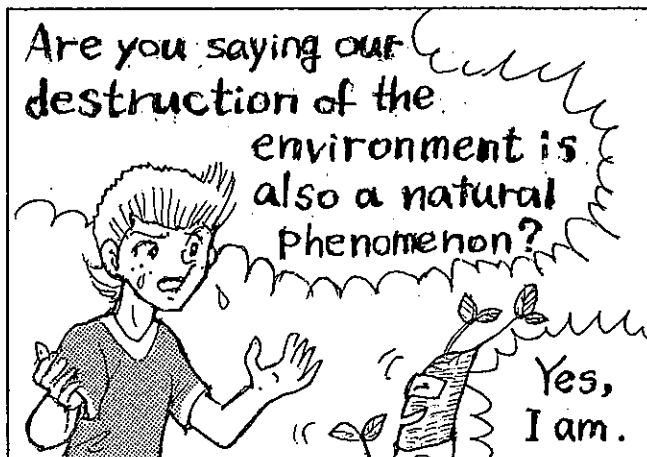
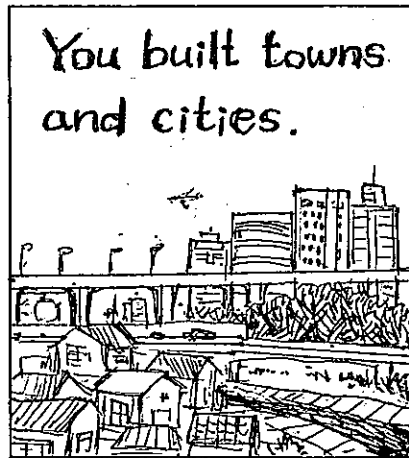
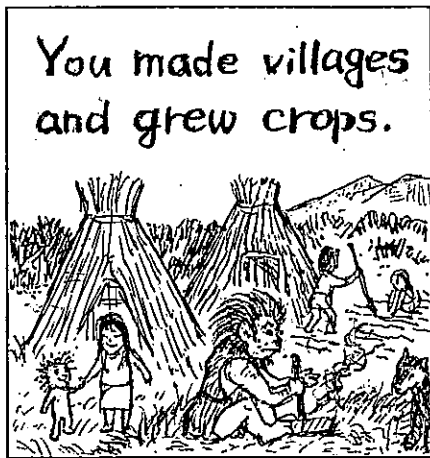
Yes! Human development has been too powerful,

And the course was not circular. It's almost straight.

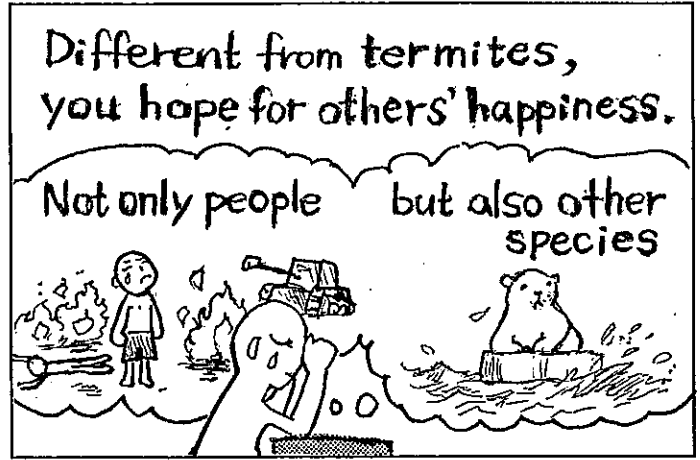
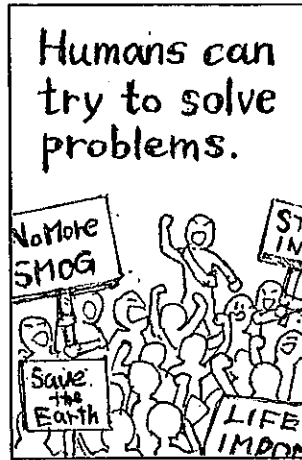
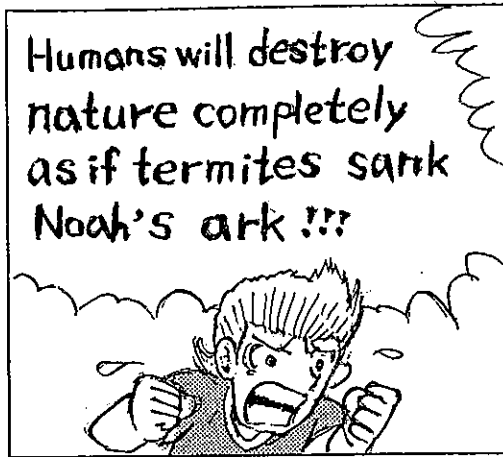
Without following nature's rules, You humans extinguished many species, destroyed the environment and started to bring yourselves to ruin.



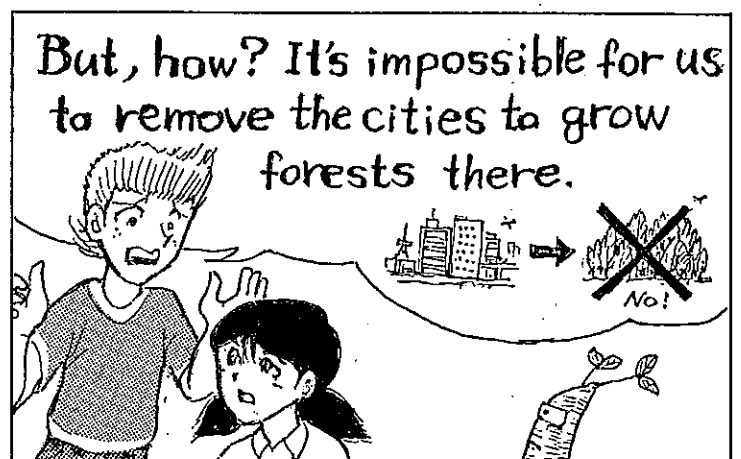
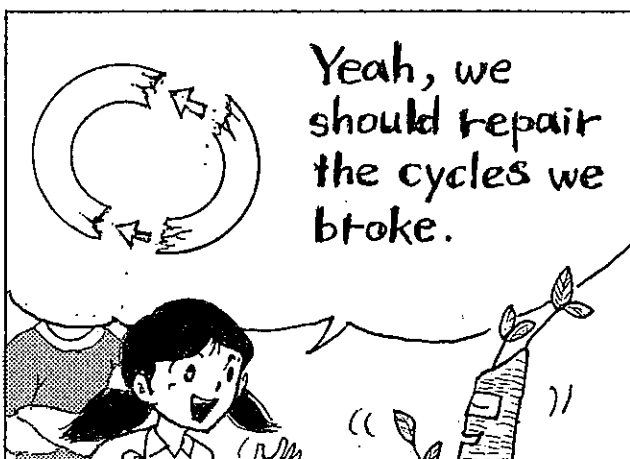
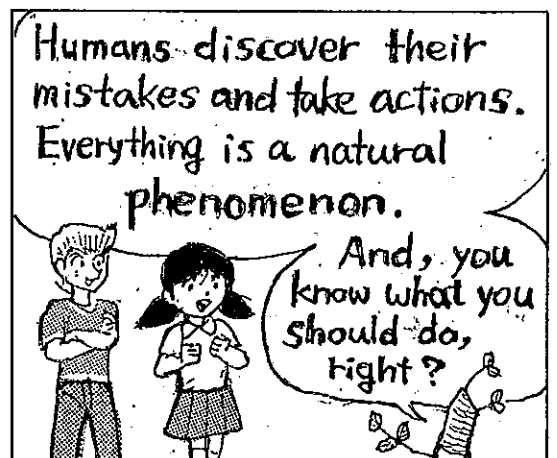
16



17



78



79

That's right.
People can't discard
our civilization.
I can't return to the
stone age.

We realize cycles
are important, but
we can't
do anything.

Well..., you
know beavers,
right?

They
make
dams.

They also change
the environment.

After they make
a dam, the previous
ecosystem
is broken.

No!!

20

But a new ecosystem is
born in the upper area
of the dam.

So,
beavers are called
'ecosystem leaders'.

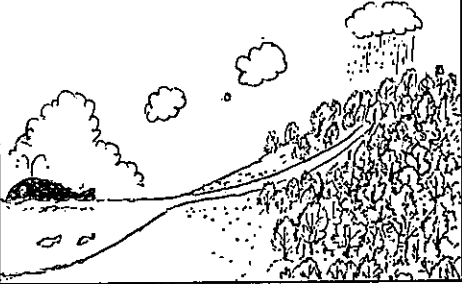
A new ecosystem!
Ecosystem
leaders !?!?

We humans should aim
to build New ecosystems
as ecosystem leaders.

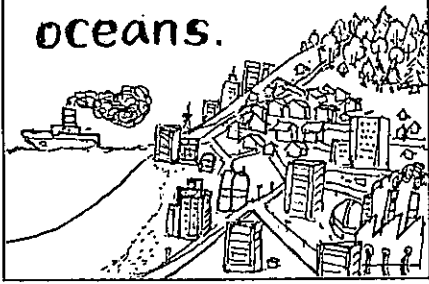
New ecosystems?
What do you mean?

As the ESD tree said,
we should be a
part of nature ;
build ecosystems
!?!?

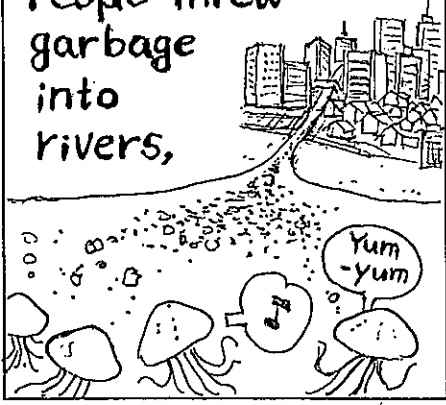
There used to be good ecosystems on the earth.



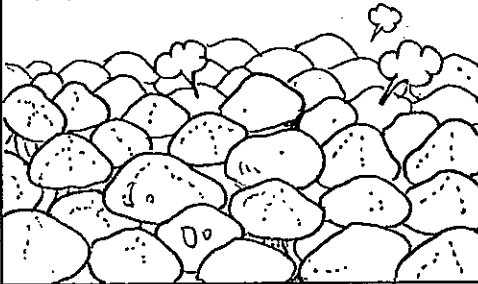
But humans made cities between mountains and oceans.



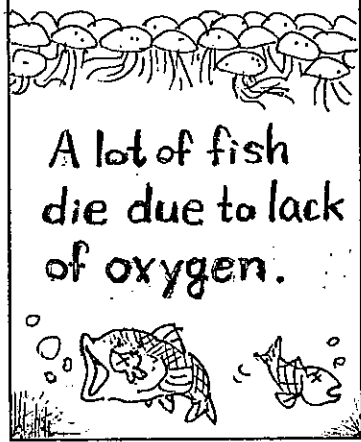
People threw garbage into rivers,



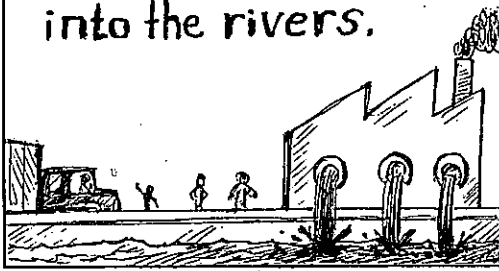
which increases the number of jellyfish in the sea.



A lot of fish die due to lack of oxygen.



What is worse, some people have thrown toxic substances into the rivers.

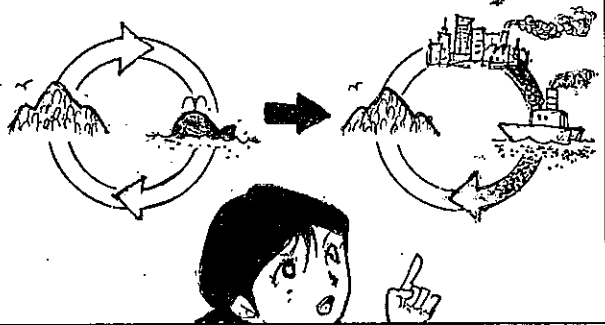


22

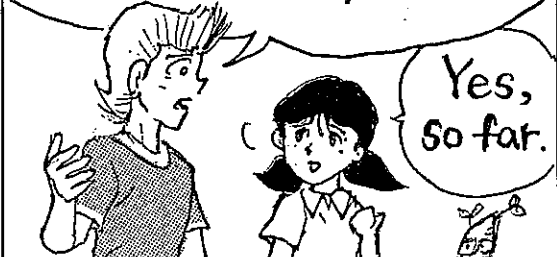
Of course, that spoiled the ecosystems seriously. A lot of species have disappeared from the rivers and the seas.



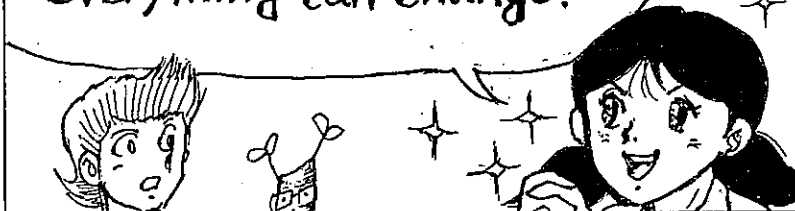
People keep destroying nature !!



Yes, so, human society is just a destroyer of ecosystems?

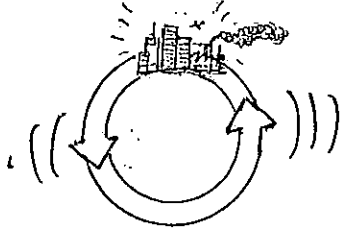


But, based on the idea that we are a part of nature, if we build New ecosystems, everything can change.

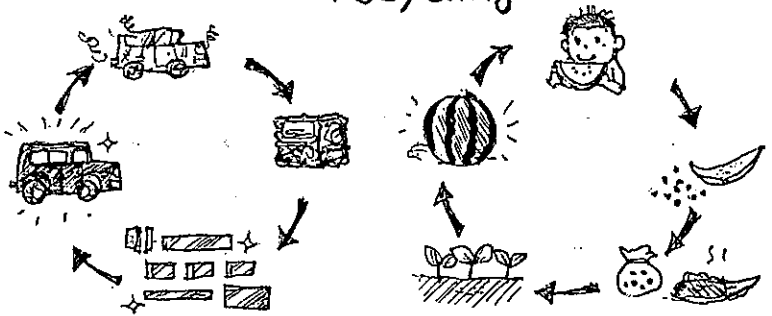


23

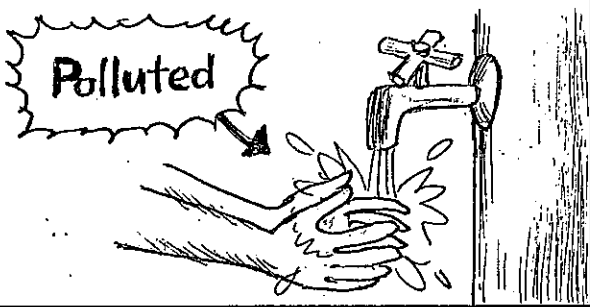
That is, we should set human society into Guru Guru !!



Many people have already started recycling.



Every activity humans do should be set into Guru Guru.

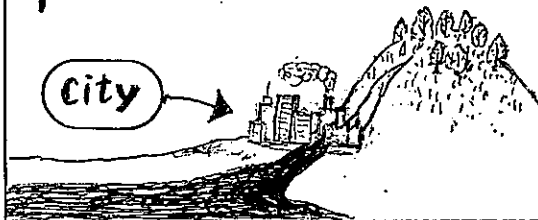


For example, water! People pollute water to live. There is no choice!



24

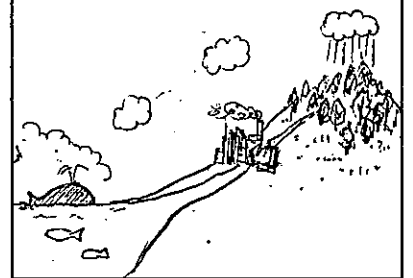
But, in new ecosystems, after polluting water, we must have another process.



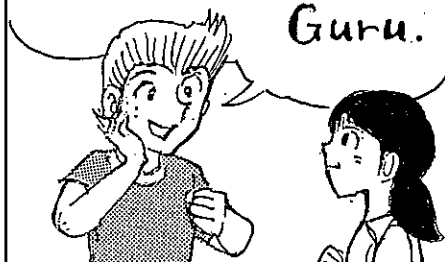
It's purification !!



Now we are part of nature!



I see. You mean we should be a member of Guru Guru.



At the same time, we should play a role as ecosystem leaders.

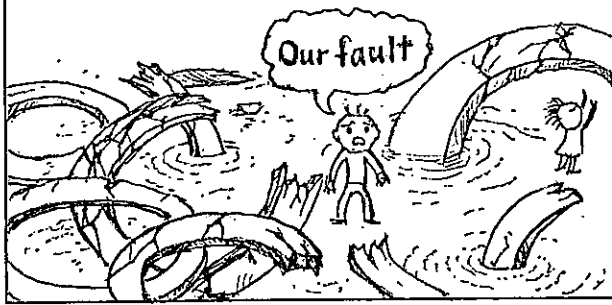


Our influence is stronger than beavers?



25

So we should know we have responsibility for ecosystems.



First of all, we should build new ecosystems with a lot of Guru Guru cycles.

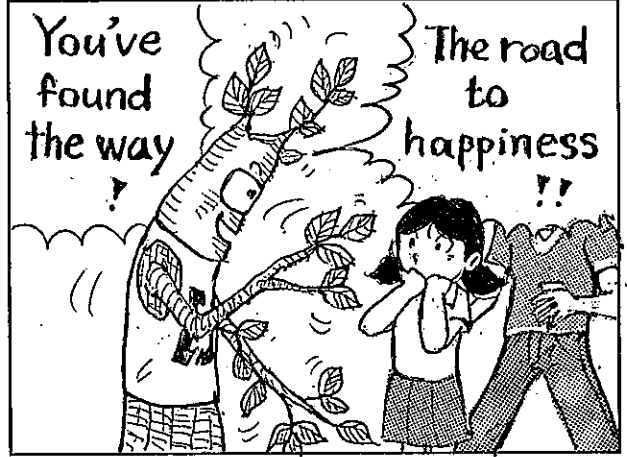


Yes!!



You've found the way

The road to happiness



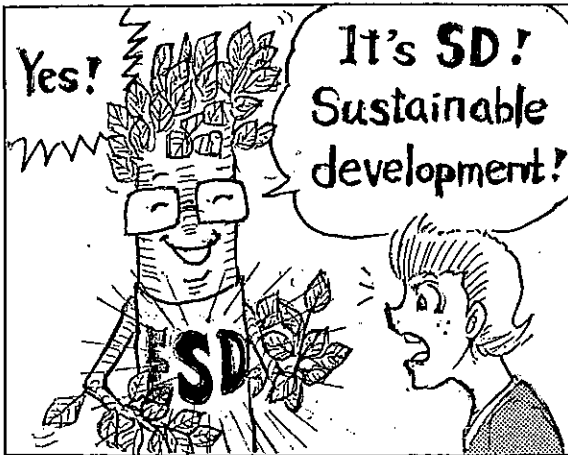
26

The road to happiness?

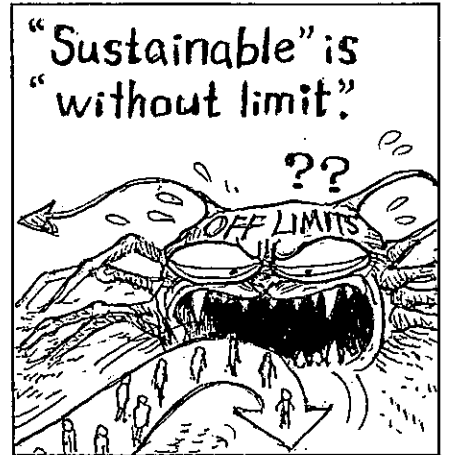


Yes!

It's SD! Sustainable development!

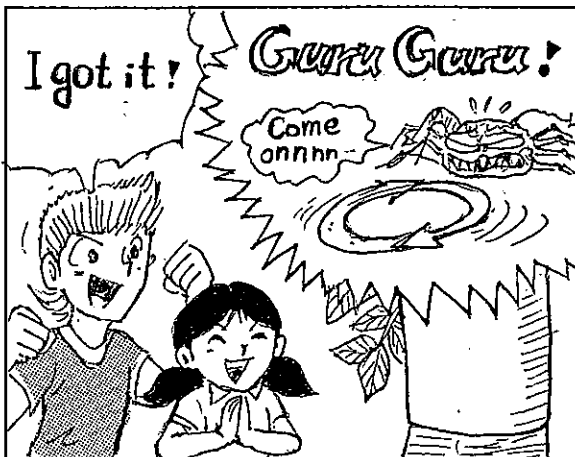


"Sustainable" is "without limit."



I got it! Guru Guru!

Come onnn

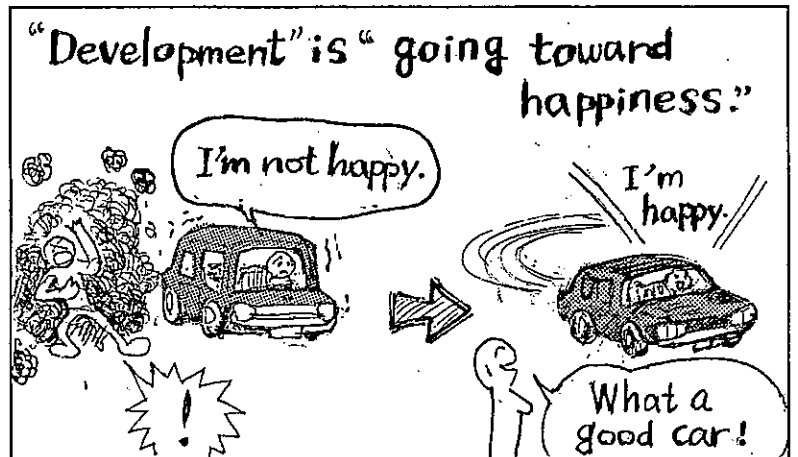


"Development" is "going toward happiness."

I'm not happy.

I'm happy.

What a good car!



27

What do you think human society aims at?
What's the goal?

To make all citizens happy.

ESD

oh!

If you can eat,

you're happy.

If you're safe,

you're happy.

If you can learn and improve yourself,

you're happy.

If you can go anywhere you want to and become whoever you want to be,

you're happy.

If you feel you're a member of society, where you and others support, respect and love each other,

you're very happy.

All citizens can live such a happy life?

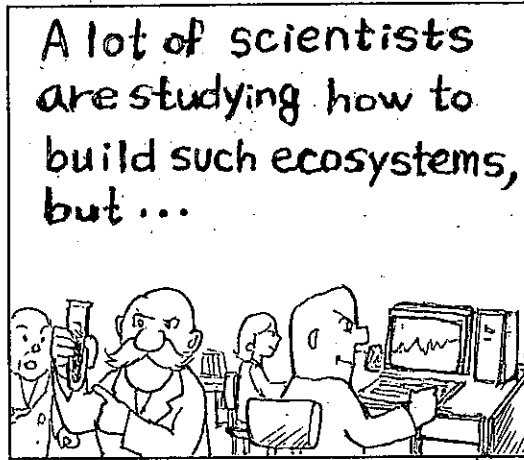
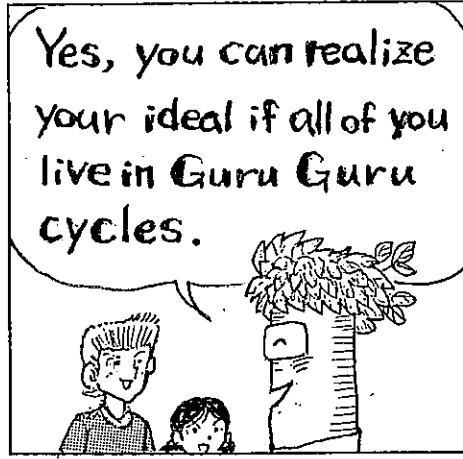
Impossible! It's just a dream!

It's hard, but not impossible.

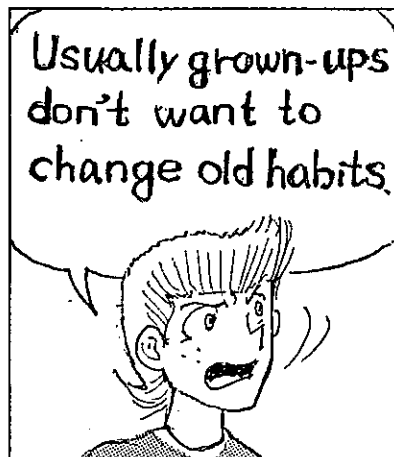
If humans had not thought of others, they could not have developed their societies.

It is the ideal that encourages people to make the world a better place.

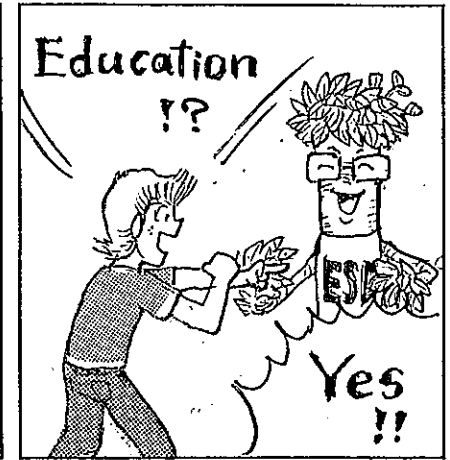
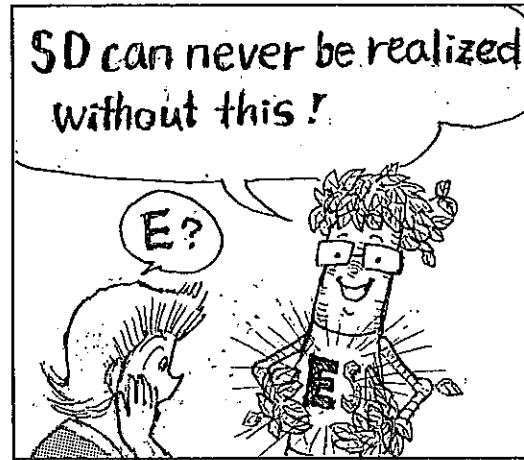
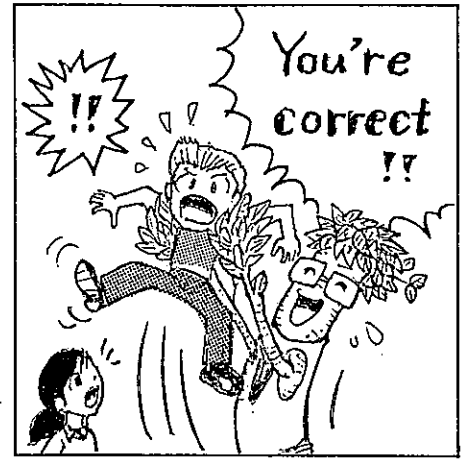
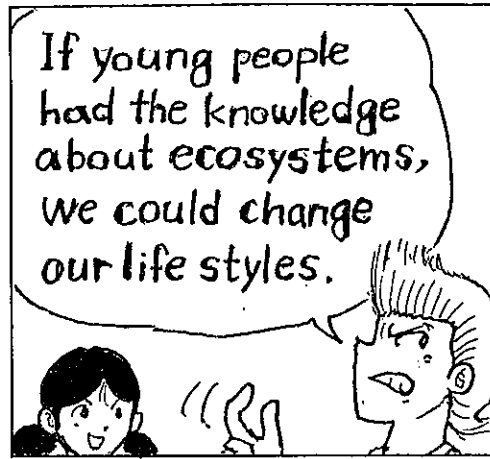
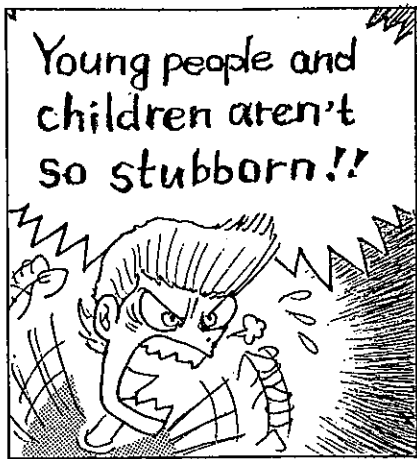
ESD EXCH



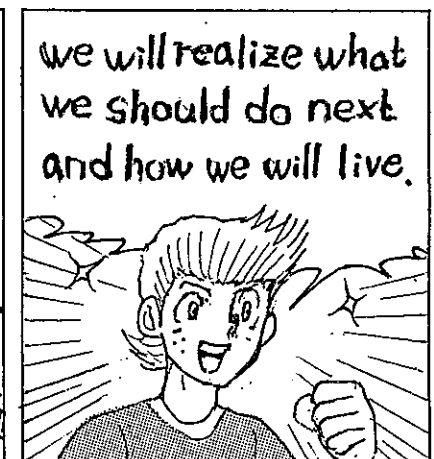
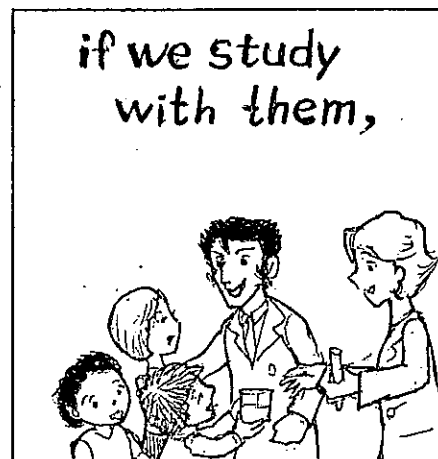
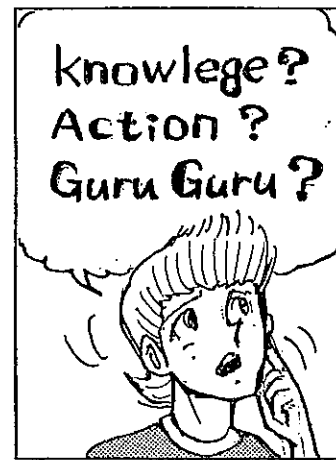
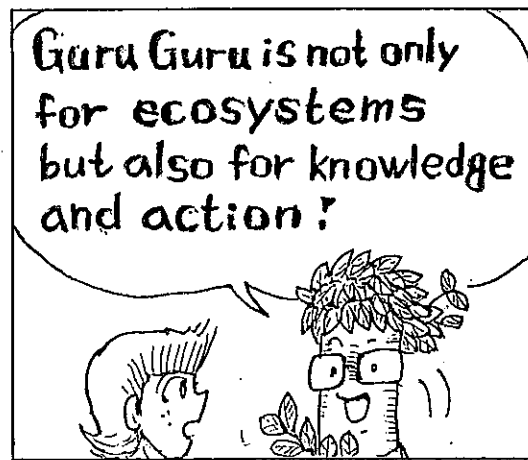
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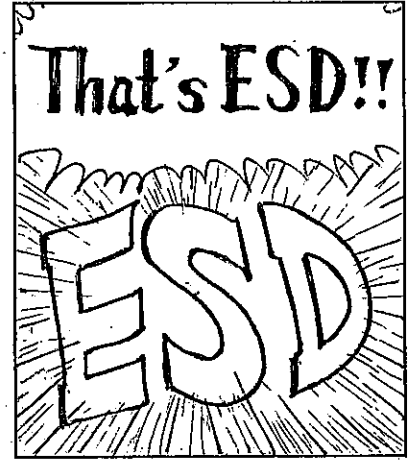
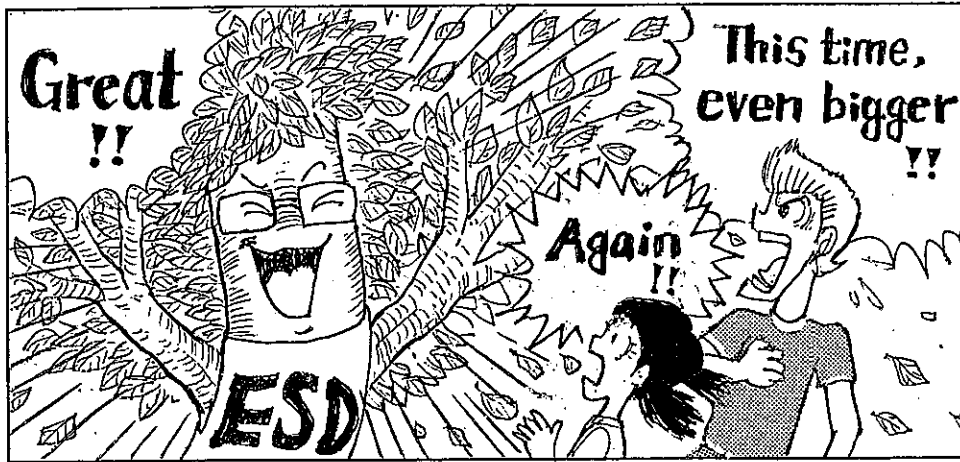
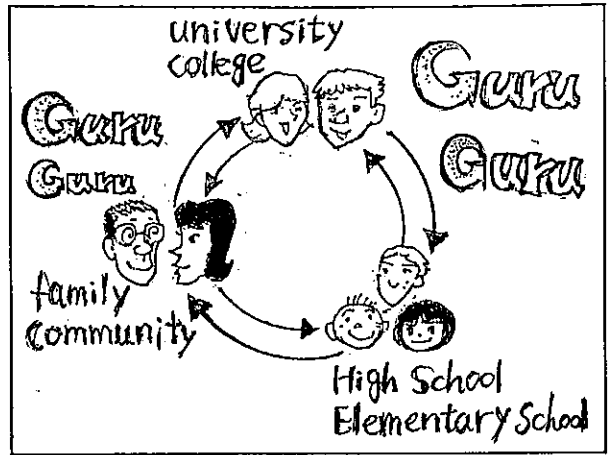
31



32



33



34



35

Exchange knowledge?

With whom?

At school, introduce what you know.

If specialists or professors visit your school, it's a chance to learn something new.

Then you should tell your family about what you learned.

Then, with your friends and neighbors

or whoever you meet.

36

Action is also important! Gain experience through practice.

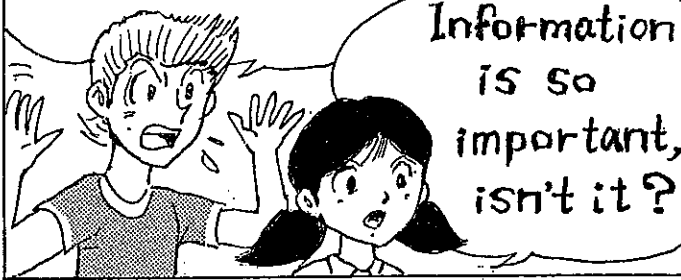
You should tell as many people about your experiences as possible.

First, people around you.

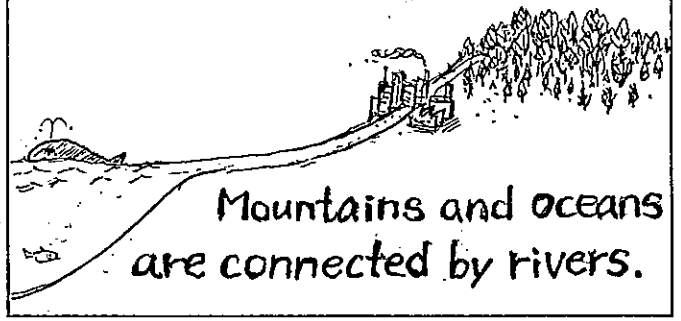
Moreover, those who live far from your city, or in other countries.

37

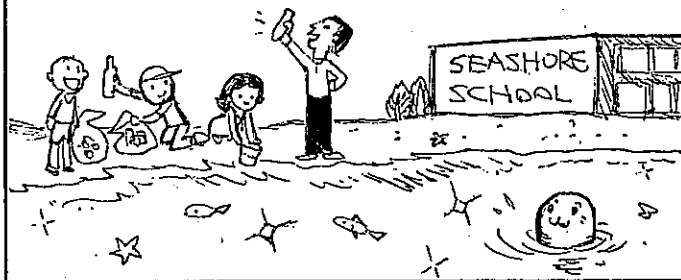
Different towns?
Different countries?



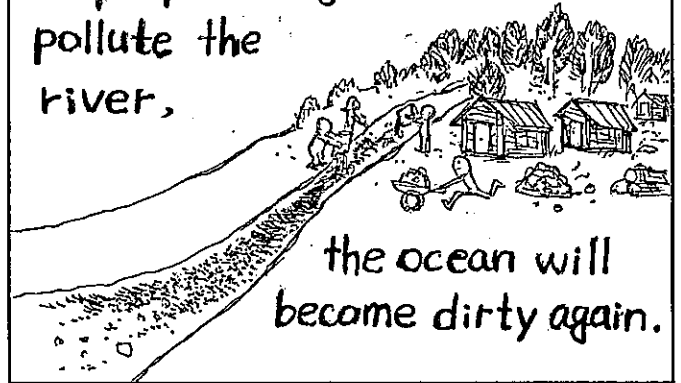
Everything is connected
to each other.



After students have cleaned
the seashore,

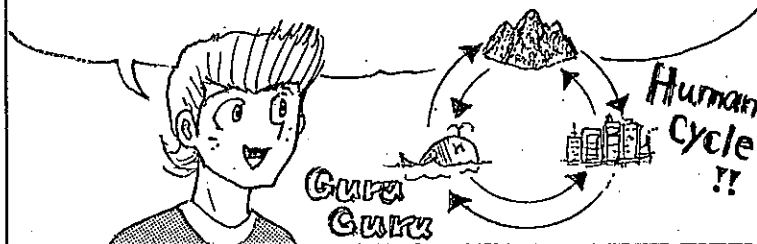


if people living in the mountain
pollute the
river,



38

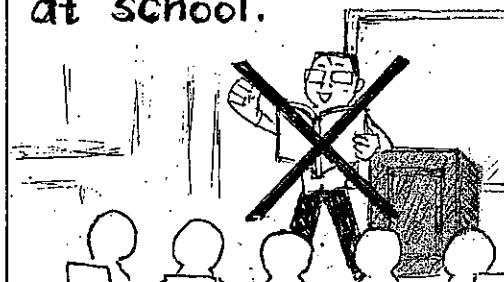
I see! People on the mountainside,
in cities and on seashores
should cooperate with each other.



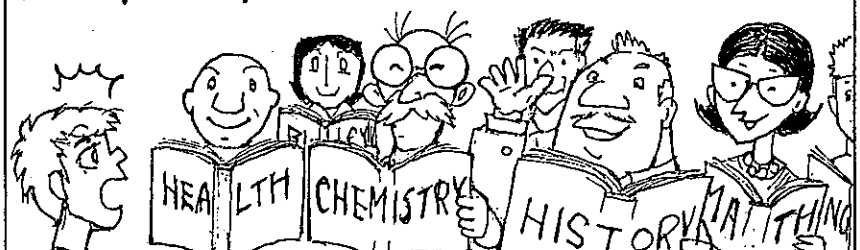
Sustainable Development
can be done only when
knowledge and experience
work together !!



So, ESD is not taught
as a single subject
at school.

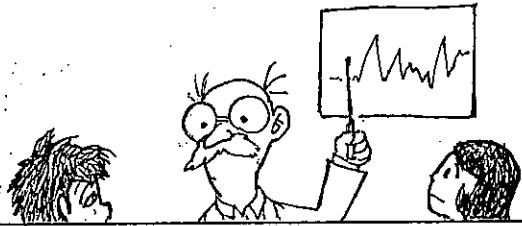


For example, when students learn about
how to solve the problem of air pollution,
perhaps they need ten different teachers.

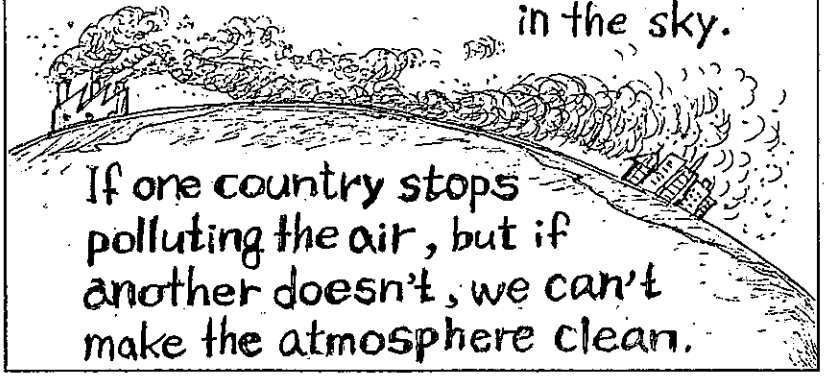


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This problem can't be solved only with scientific knowledge.

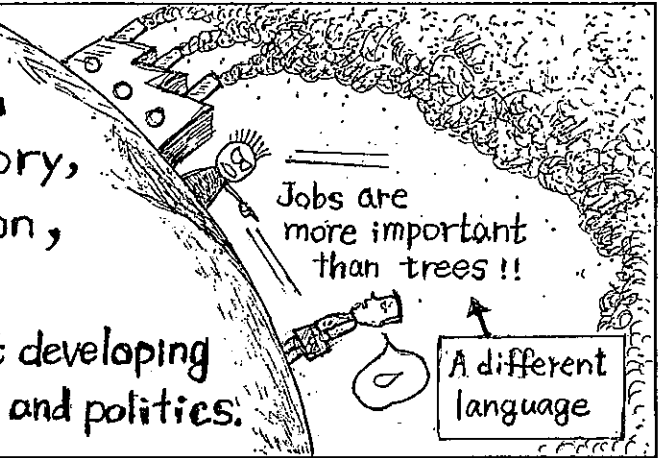


All countries are connected by the air in the sky.



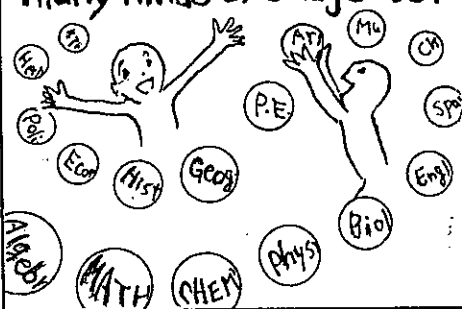
To persuade other countries into joining us, you should learn a lot about other cultures' history, geographic features and so on, as well as how to debate.

If it becomes necessary to support developing countries, you should learn economics and politics.

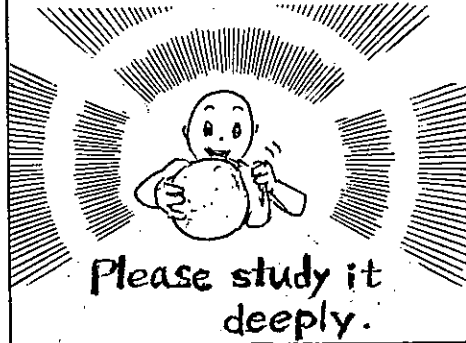


40

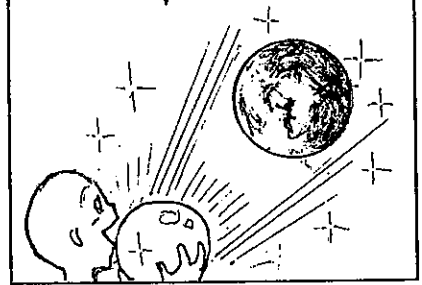
Young people should be interested in and learn many kinds of subjects.



When you find one and think "This is the one for me!";

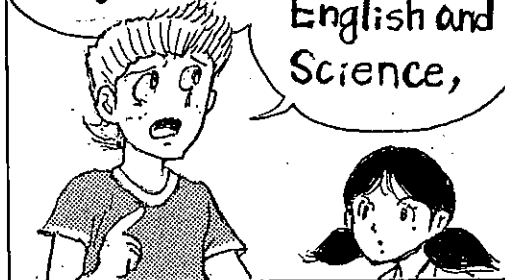


That may save humans and this planet.



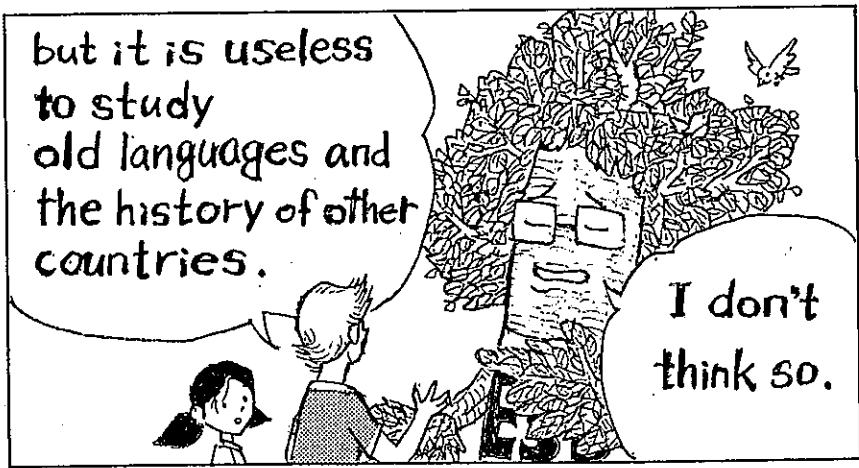
Many kinds of subjects?

I think it's important to study English and Science,



but it is useless to study old languages and the history of other countries.

I don't think so.

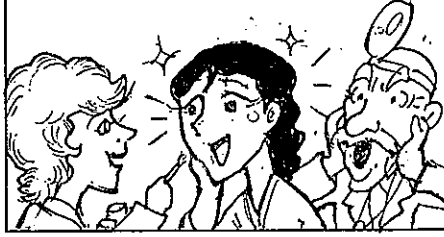


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Once, some people had skin diseases that resisted modern medical treatments.



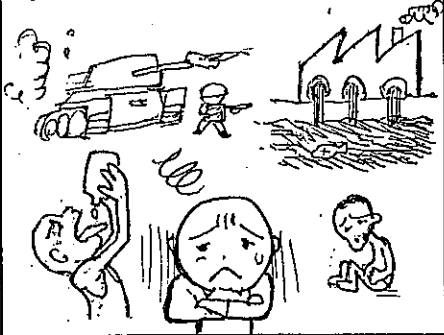
But a lotion made from a local medical plant healed them.



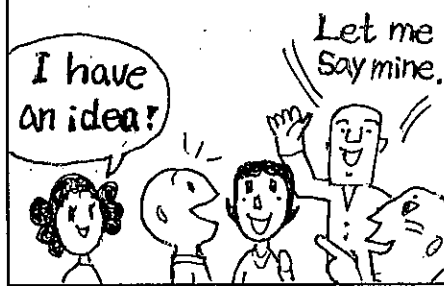
Without the person who knew the plant, the diseases could not have been cured.



There are a lot of problems in the world.



To solve them, we need various ideas from as many people as possible.

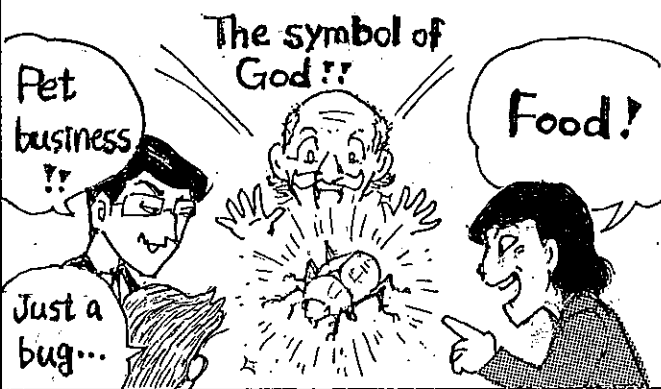


It is better for people with different cultures to introduce their ideas to each other.

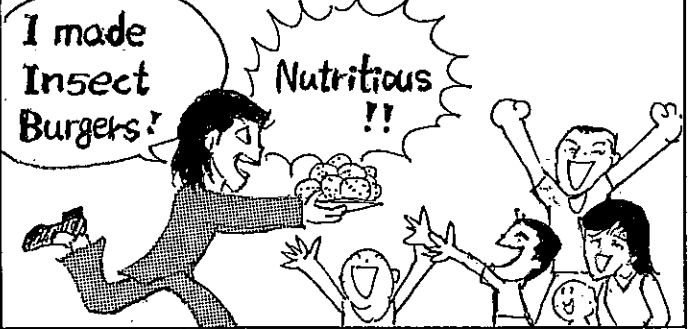


42

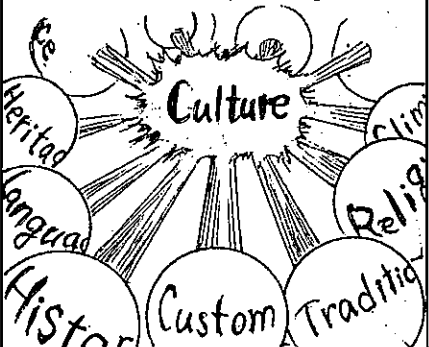
Different views in different cultures.



Diversity will create various ideas.



Culture is made from a lot of elements.



Hints to solutions may be hidden in the history of a country,

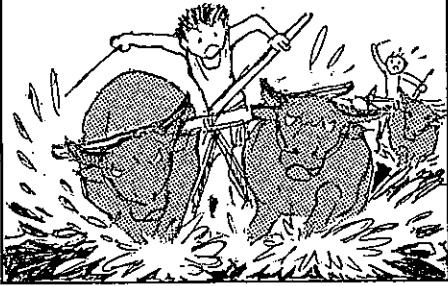


or in a story in an old language from long ago.

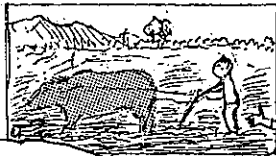


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So, first, learn the tradition and culture in your area.

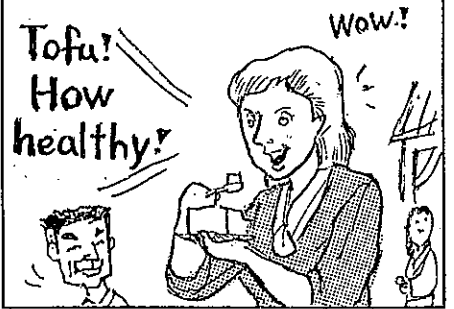


Then, introduce them to other people.



An oil-free tractor?

Also, learn about other cultures.



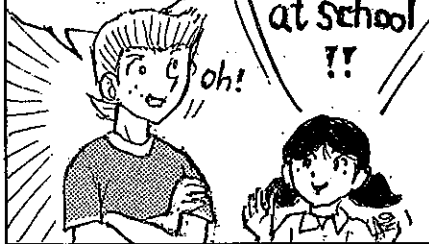
That makes you create new things.

Tofurkey



Learning is the first step!!

I will do well at school !!



Yes... I want you to know the importance of school.



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In a country where many children cannot go to school, mothers don't have enough knowledge,



so a lot of babies die every year.



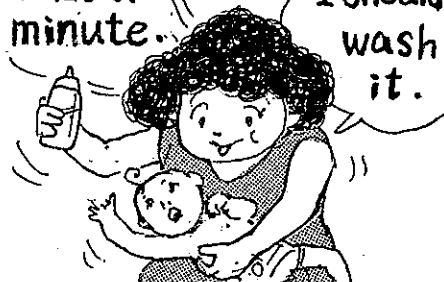
If all the children in the world went to school,



more lives would be saved,

Just a minute...

I should wash it.

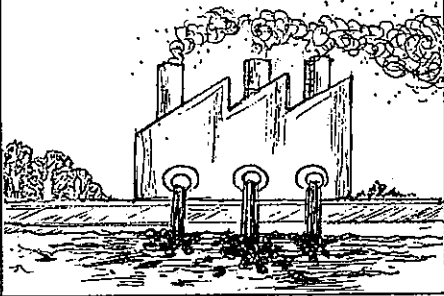


and the possibility to solve problems would become greater.

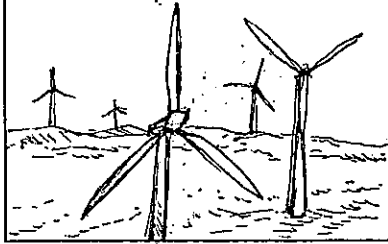


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ESD is not only
Nature Education



but also
Energy Education,



International
Understanding & Cross
Cultural Education,



Peace Education



and Fundamental Human Rights
Education.



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That is because
the goal of ESD is



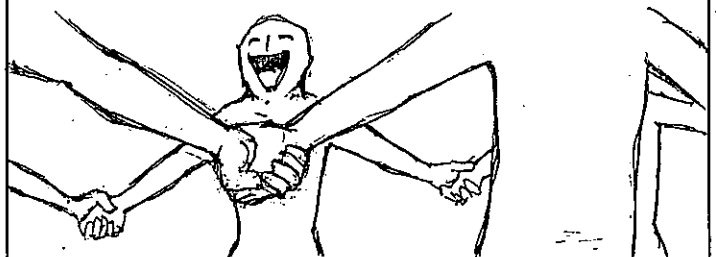
to make a world where
all citizens live happily



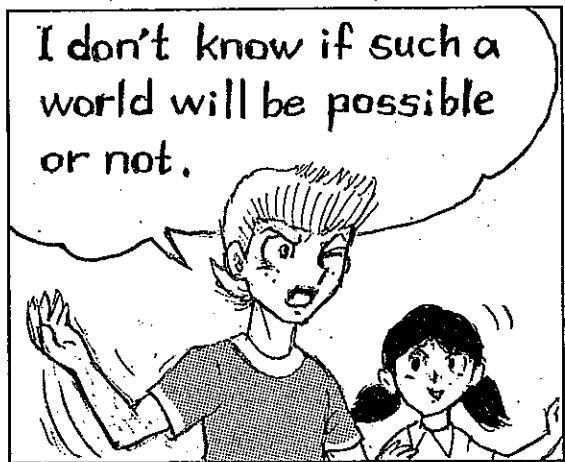
in New ecosystems ...



supported by a great number
of Human Guru Guru cycles
!!!



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ESD's goal is to make three types of Guru Guru cycles.

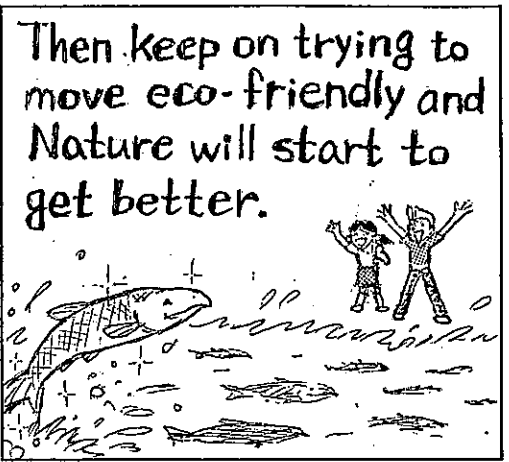
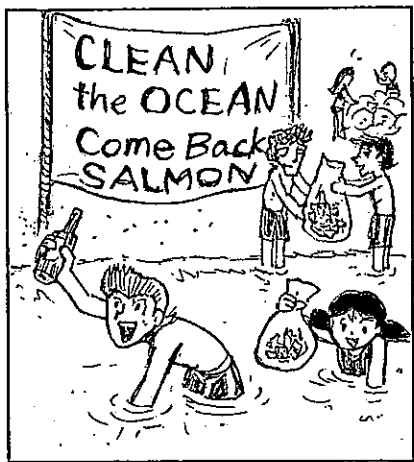
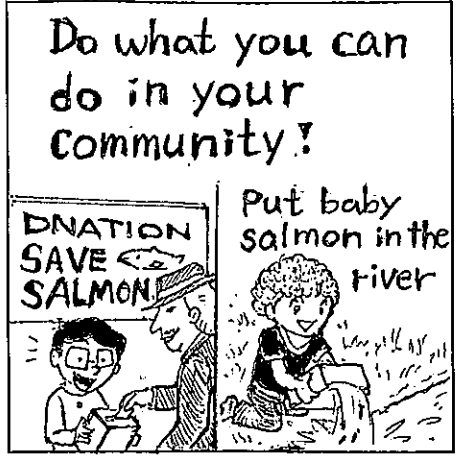
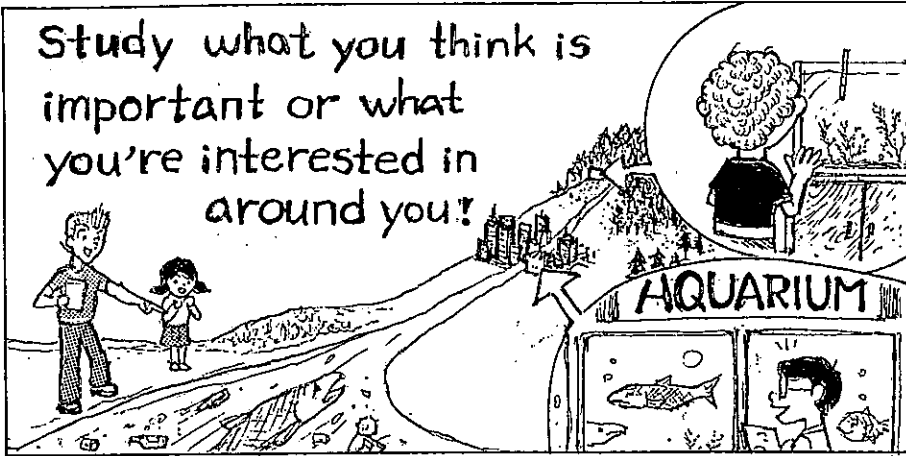


The second ones should be made by people who are dedicated to exchanging ideas and information,

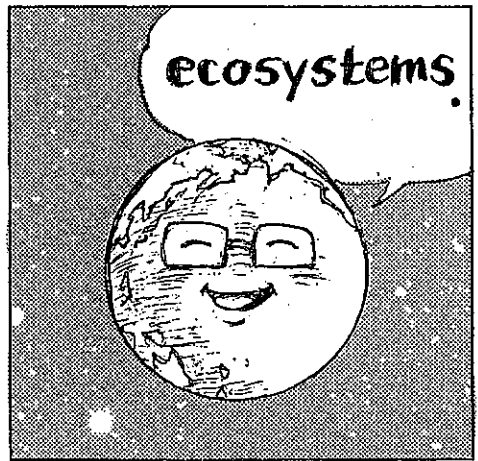
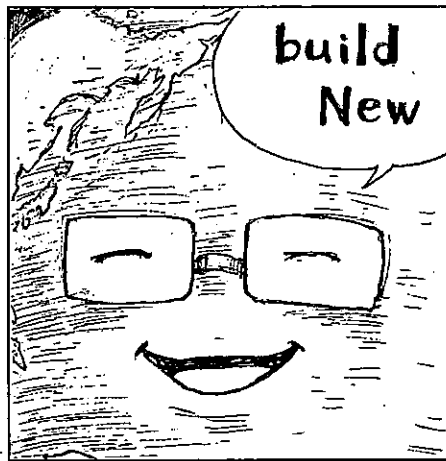
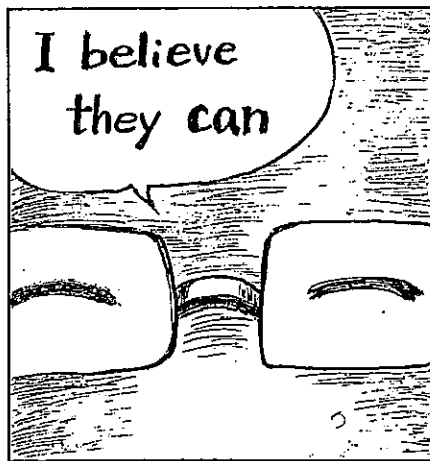
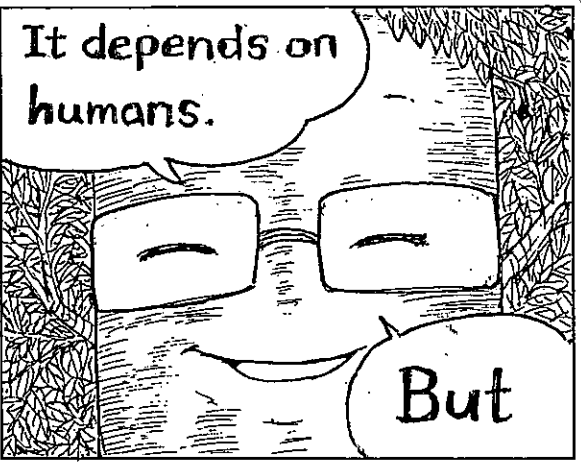
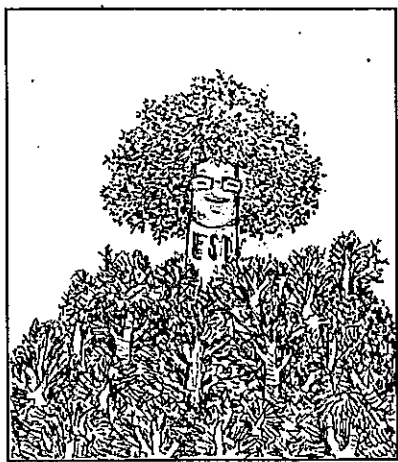
and who cooperate with each other.

If all countries pull together then things will really get going.

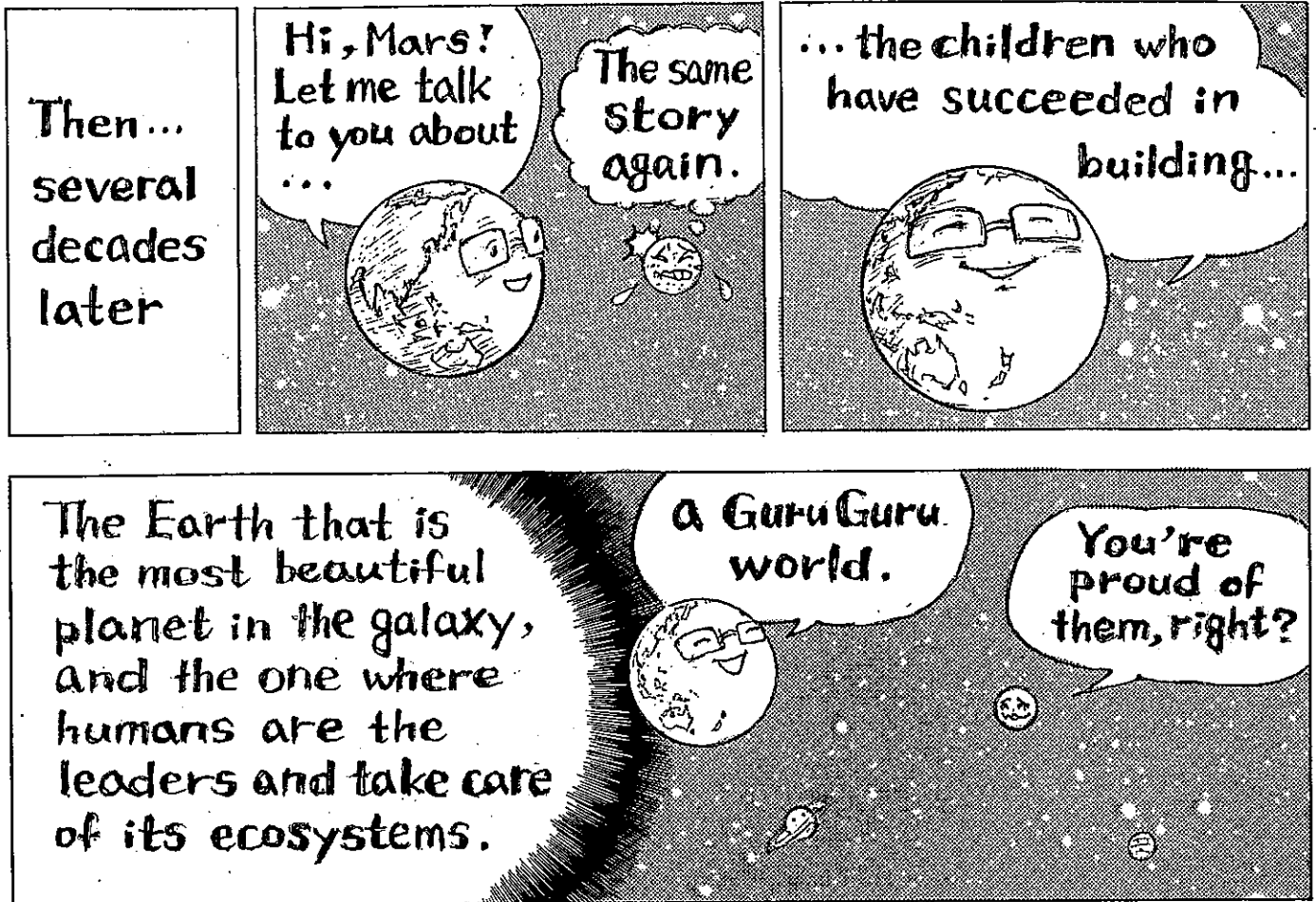
Then it must be put into the third Guru Guru - enormous ecosystems.



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Guru Guru ~ What's ESD? ~

渋谷教育学園渋谷中学高等学校

Shibuya Kyoiku Gakuen Shibuya High School

Ryuji Kitahara

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Mr. Daniel Thompson

Mr. Daniel Bradford

Mr. Richie Steven



この「Guru Guru ~What's ESD?~」は、「第10回 自己表現力コンクール」の大賞作品「Guru guru ~What's ESD?~」に加筆し、改訂したもので、平成22年度文部科学省委託「日本/ユネスコパートナーシップ事業」ユネスコスクールにおけるESD普及促進活動（通称：学校&みんなのESDプロジェクト）によって制作されました。