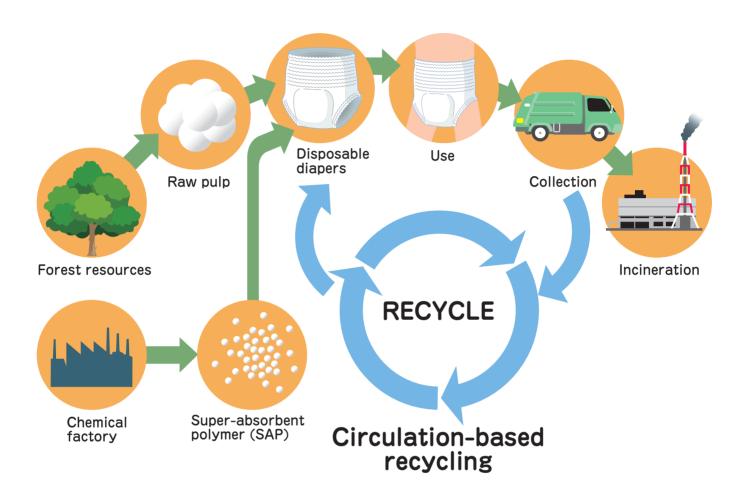
No. 1 / 11

Study Note ①

Unicharm's circulation-based recycling of disposable diapers

Study Theme: What is circulation-based recycling?

Url



What makes "circulation-based recycling" different from other types of recycling?				

Url

https://www.unicharm.co.jp/en/csr-eco/education.html

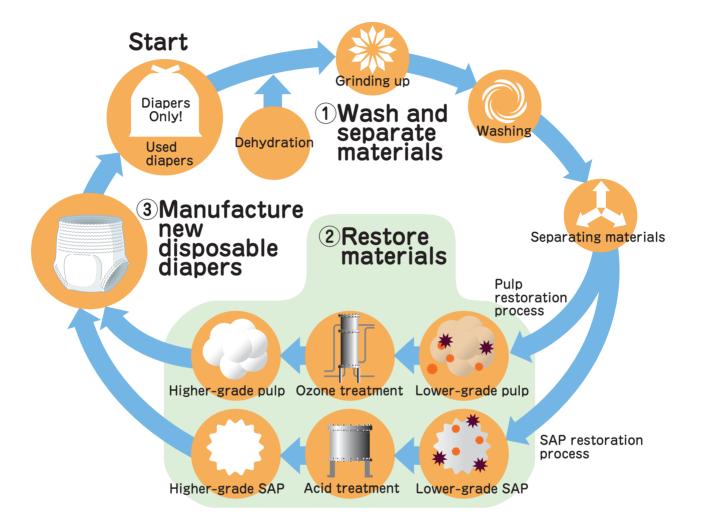
No. 2 / 11

Date

Study Note ①

Unicharm's circulation-based recycling of disposable diapers

World first! Unicharm's diaper circulation-based recycling



List the steps in the "circulation-based recycling" process.				



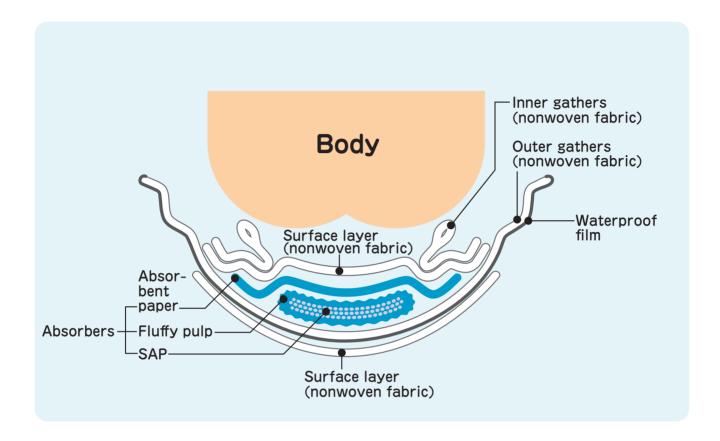
No. 3 / 11

Study Note 2

Diaper recycling technology

Study Theme: How disposable diapers are made of?

Url





No. 4/11

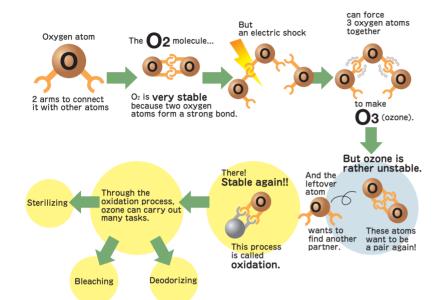
Study Note 2

Diaper recycling technology

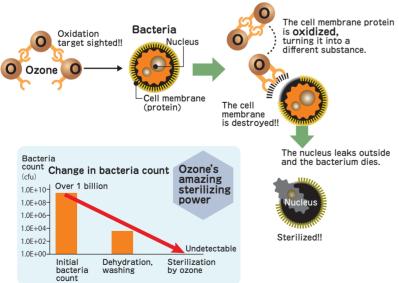
Study Theme: How ozone treatment restores pulp?

Url

1 What is ozone?



2 How ozone kills bacteria?



∌ How d			



No. 5 / 11

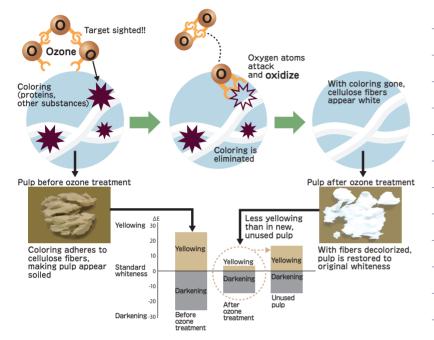
Study Note 2

Diaper recycling technology

Study Theme: How ozone treatment restores pulp?

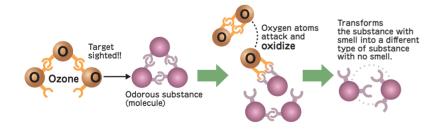
Url

3 How ozone bleaches?



Which pigment substances cause the yellowing or darkening of used diapers?

4 How ozone removes odors?



✓ When the ozone treatment sterilizes, bleaches
and deodorizes the used pulp, to what extent
its quality is expected to be restored?



Url

https://www.unicharm.co.jp/en/csr-eco/education.html

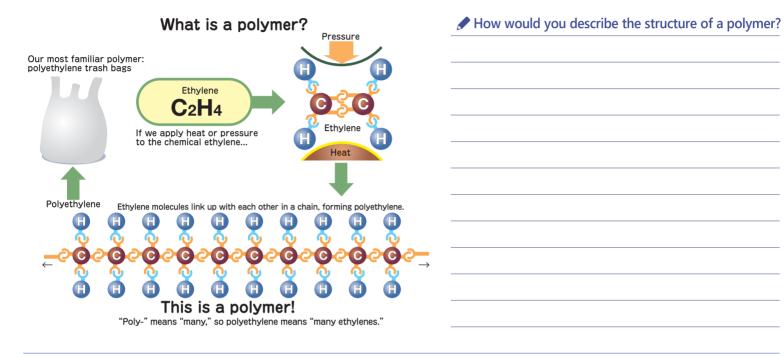
No. 6/11

Study Note 2

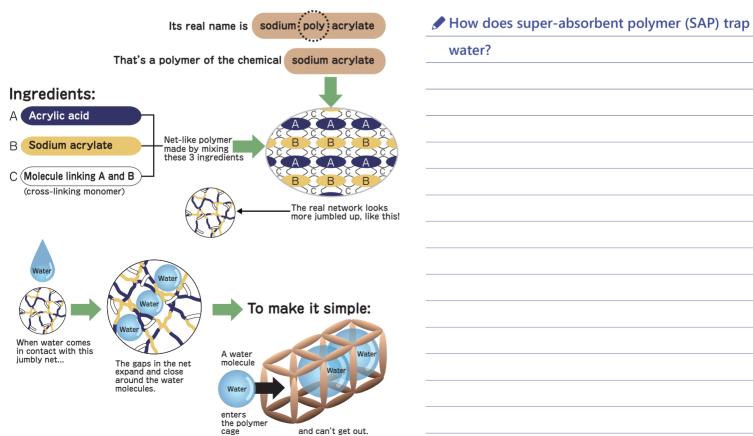
Diaper recycling technology

Study Theme: How acid treatment restores super-absorbent polymer (SAP)?

1 What is SAP?



So, exactly what is SAP?





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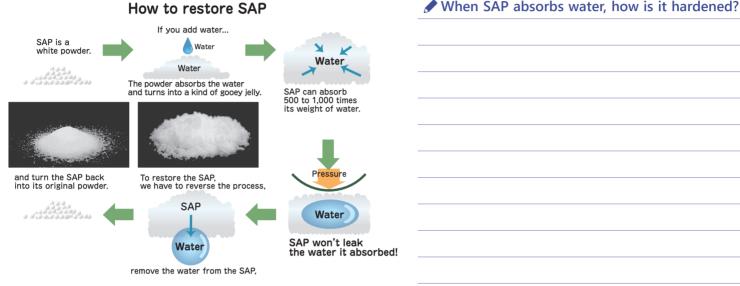
Study Note 2

Diaper recycling technology

Study Theme: How acid treatment restores super-absorbent polymer (SAP)?

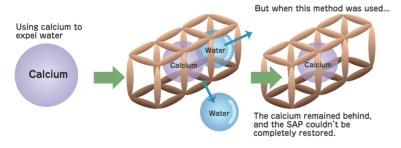
2 Unicharm's SAP restoring technology

Url





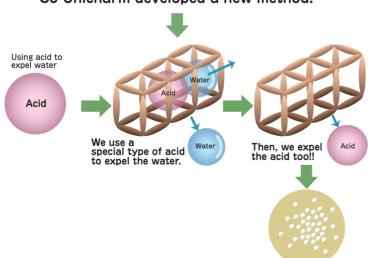
Why an earlier SAP restoration method didn't work



What are the differences between the new vs.

current SAP restoration methods?

So Unicharm developed a new method!



The SAP is restored!!

Url

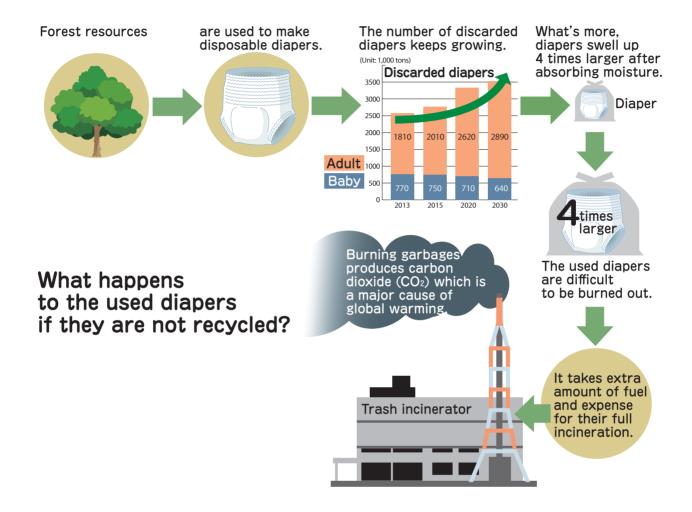
https://www.unicharm.co.jp/en/csr-eco/education.html

No. 8 / 11

Study Note 3

What happens to the used diapers if they are not recycled?

Study Theme: Problems with current ways of disposing used disposable diapers



What are the potential problems caused when burning the used disposable diapers?				



Title An Illustrated Guide to Recycling Unicharm Disposable Diapers

https://www.unicharm.co.jp/en/csr-eco/education.html

No. 9/11

Study Note ③

What happens to the used diapers if they are not recycled?

Recycling used disposable diapers contributes to the United Nations Sustainable Development Goals (SDGs)



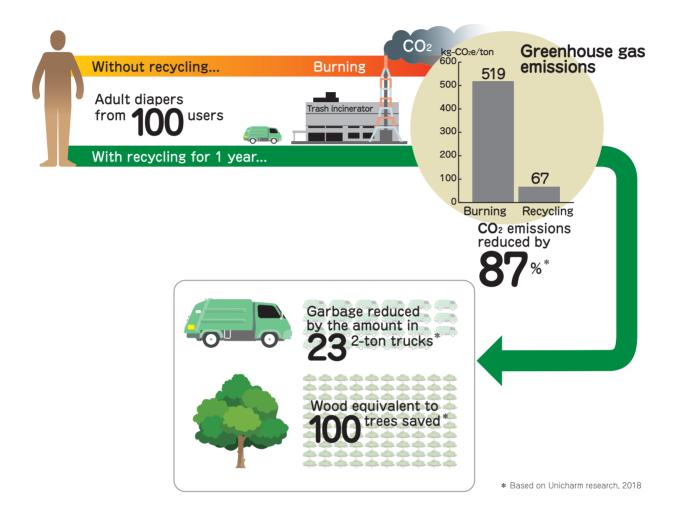
A = 1
Ø Going forward, what types of activities would you like to carry out to help achieve the SDGs?

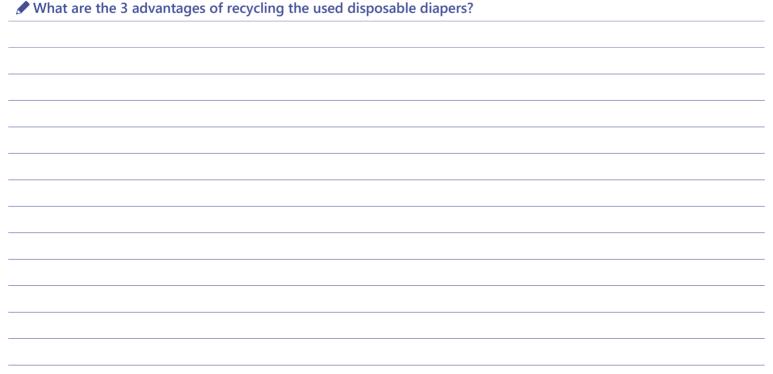
No. 10 / 11

Study Note 4

Safeguarding the global environment by recycling diapers

Study Theme: Benefits of recycling used disposable diapers



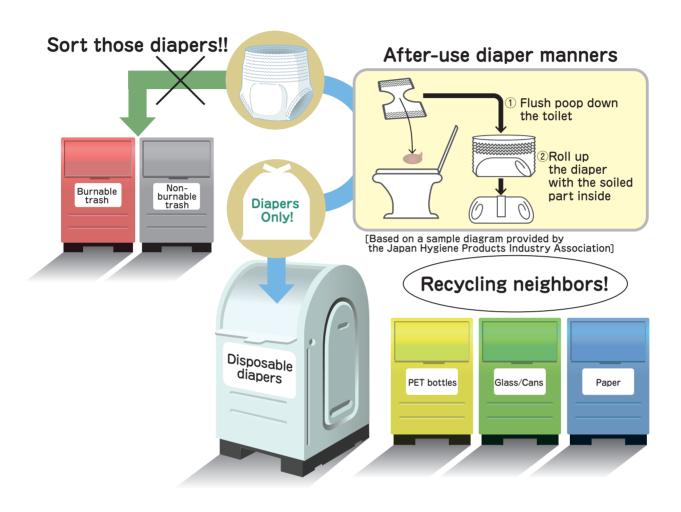


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Study Note 4

Safeguarding the global environment by recycling diapers

How can we keep used diapers out of the "garbage"?



Try to fin	d out the	recycling	initiatives	vour local	community	is working	no r
,	a oat tile			goar rocar		,	,

Name of the city or town you reside in:

Method of disposing the used diapers your local community is carrying out:

Efforts and initiatives of recycling or others, if any, to help maintain and improve the environment in your local area:

- Efforts and initiatives in your prefecture, state or province:
- Efforts and initiatives in your city or town:
- Efforts and initiatives at your school: