

Checklist Paper

School:

Group (names of all pupils):

.....

Taker of the minutes:

Tutor of the group:

Dialogue partner:

Date:



Find out how our school deals with paper! Ask our secretary or another qualified person. If necessary have your teacher help you with arithmetic problems.

Answer the questions in sequence! Be considerate when walking through the school! If possible take pictures that are in line with your topic!

1 Types of paper

- a) Have your teacher explain to you how paper is produced and what the difference between “virgin paper” and “recycling paper” – or do some research on the internet yourself.

Virgin (white) paper is made from

.....

Recycling paper is made from

.....



Tip: it is easiest to recognise recycling paper by its sign „Der Blaue Engel/The Blue Angel“. Look for it for example on folders or on the wrappings of the paper for the printer or the copier.

Virgin paper doesn't carry the Blue Angel. It usually is very white.

- b) Now find out, which paper products are used in our school and which types of paper are used for it. Ask our secretary to help you. If there is one product you don't know, have the secretary show or explain it to you.

Simply tick off anything applicable! If both types of paper are used for one product, mark both with a cross.

	Recycling	Virgin		Recycling	Virgin
Copying paper	<input type="radio"/>	<input type="radio"/>	File cards	<input type="radio"/>	<input type="radio"/>
Printer paper (computer)	<input type="radio"/>	<input type="radio"/>	Receipts	<input type="radio"/>	<input type="radio"/>
Writing paper	<input type="radio"/>	<input type="radio"/>	Address labels	<input type="radio"/>	<input type="radio"/>
Envelopes	<input type="radio"/>	<input type="radio"/>	Toilet paper	<input type="radio"/>	<input type="radio"/>
Folders	<input type="radio"/>	<input type="radio"/>	Paper towels	<input type="radio"/>	<input type="radio"/>

2 Paper consumption for printer and copier

Find out how much paper our school uses for prints and copies per year!

- a) How many sheets of printing and copying paper are used in the school per year?
.....
.....
- b) Have your secretary give you 1000 sheets of copying paper (two packages of 500 sheets) and measure the height of this pack!
.....
- c) Calculate the total height of the pack of copying paper used in your school per year!
.....
- d) How many pupils go to your school?
.....
- e) Count how many sheets of copying paper are used at your school per pupil each year!
.....
- f) Get information on the internet about how the consumption of paper of other schools, for example: www.umweltschulen.de/abfall/k_papier !
.....
.....

3 Paper saving printing and copying

Find out if we use paper economically for printing and copying! Ask the secretary and remember the worksheets handed out during lessons.

- a) Are they copied two-sided?
Why/why not?
.....
.....
- b) Is a page minimized where appropriate (2 pages on one page)?
Why/why not?
.....
.....
- c) Are the one-sided prints collected, to use them later for test prints for example?
Why/why not?
.....
.....

4 Responsibility

Ask the secretary who is responsible for ordering the paper.
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.....
.....
.....

5 Paper consumption of the pupils

a) Find out how the pupils of our school use paper.

Take at least 20 pupils from different ages and ask them which class they belong to, how many exercise books and blocks they need each year, and what material their exercise books and blocks are made of.

Make a note of all data on this checklist. If someone uses white paper *and* recycling paper, make a cross at *both* types of paper. If you want to ask more than 20 pupils make a copy of this checklist.

	Class	Number of ex. books	Number of blocks	White paper	Recycling paper
Pupil 1	<input type="radio"/>	<input type="radio"/>
Pupil 2	<input type="radio"/>	<input type="radio"/>
Pupil 3	<input type="radio"/>	<input type="radio"/>
Pupil 4	<input type="radio"/>	<input type="radio"/>
Pupil 5	<input type="radio"/>	<input type="radio"/>
Pupil 6	<input type="radio"/>	<input type="radio"/>
Pupil 7	<input type="radio"/>	<input type="radio"/>
Pupil 8	<input type="radio"/>	<input type="radio"/>
Pupil 9	<input type="radio"/>	<input type="radio"/>
Pupil 10	<input type="radio"/>	<input type="radio"/>
Pupil 11	<input type="radio"/>	<input type="radio"/>
Pupil 12	<input type="radio"/>	<input type="radio"/>
Pupil 13	<input type="radio"/>	<input type="radio"/>
Pupil 14	<input type="radio"/>	<input type="radio"/>
Pupil 15	<input type="radio"/>	<input type="radio"/>
Pupil 16	<input type="radio"/>	<input type="radio"/>
Pupil 17	<input type="radio"/>	<input type="radio"/>
Pupil 18	<input type="radio"/>	<input type="radio"/>
Pupil 19	<input type="radio"/>	<input type="radio"/>
Pupil 20	<input type="radio"/>	<input type="radio"/>

b) Calculate the sum of exercise books and blocks.....

c) Now calculate the use per pupil. For this you divide the number of line b) by the number of pupils you interviewed.....

d) Count the number of exercise books and blocks that are used each year at our school. For this you multiply the number from line c) by the number of all pupils of our school.

.....

e) Now you take 10 exercise books and 10 blocks respectively and measure the heights of these packs!

.....

f) Calculate the height of all the exercise books or blocks used in our school each year!

g) Count how many sheets of paper all these exercise books and blocks, used in our school each year, contain. You can assume that one block or exercise book is made of 50 sheets.

.....

6 Environmental impact of paper consumption

Count how many sheets of paper we use in our school each year (sum of the results of question 2a and 5g):

In our school we use sheets of paper each year.

Get information about how the production of paper affects the environment. You find information on the internet site www.umweltschulen.de/abfall/papier_s.html. Use the "sustainability calculator" and enter the number of sheets, that are used at our school.

Take a note of the results here and discuss the differences:

	Recycling paper	Virgin paper
Material consumption (waste paper or wood):kgkg
Water consumptionll
Energy consumptionkWhkWh
CO ₂ -emissionskgkg

If some of these facts don't tell you anything, ask your teacher.

Now present to your teacher the results that you have found out so far!

7 Evaluation and presentation

Build an opinion about our paper consumption!

We like:

We don't like:

.....
.....
.....
.....

Discuss what we could do better!

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.....

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Think about how you would like to present your results to other pupils and teachers!

For example, build a tower out cardboard which is as high as the sum of paper that the school uses each year.

Do a graphic presentation of the data on paper consumption.

Write a little story, in which an exercise book tells about its production and adventures. Also write such a story for an exercise book made of virgin paper.

Or you present your results and suggestions on a wall newspaper.

Now get ready to present your results!



