

Erstellt mit KI: Bing imagine creator (Microsoft), 04.12.2023

Introduction to the project day:
Heat in the city!

What percentage of the world‘s population lives in cities?

A 17 %

B 37 %

C 57 %

D 77 %

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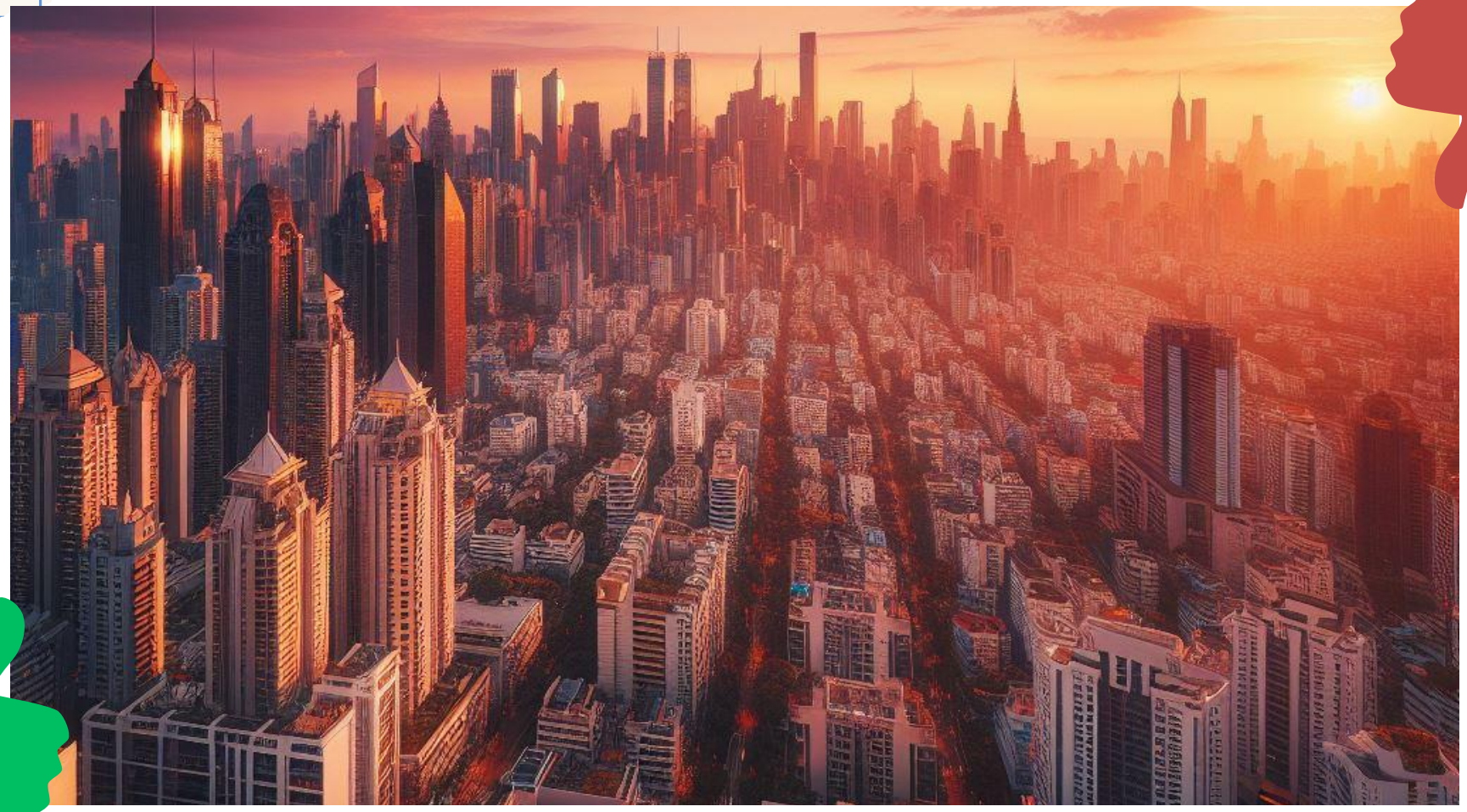
Name some advantages of living in the city. Which ones are particularly important to you (and which ones are not)? **Explain**.



Urban Densification

Urban Densification

More people living closer together in the same city space



many people

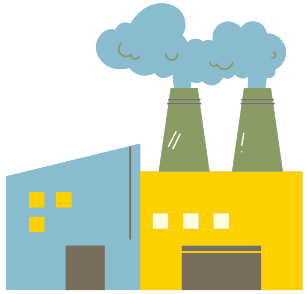


many buildings

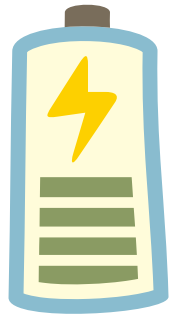


complex infrastructure

Disadvantages of Urban Densification



Air Pollution



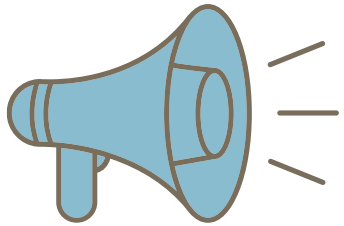
High Energy Consumption



Environmental Pollution



Extreme Weather



Noise



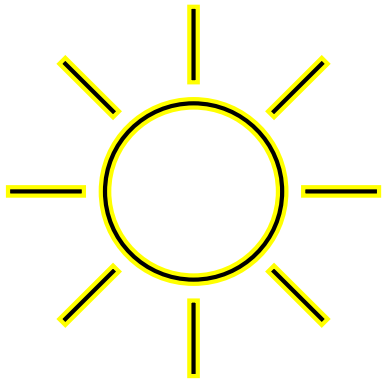
Less Plants

LIVING IN THE CITY ALSO HAS ITS DISADVANTAGES…

This is Lisa. Lisa lives in a **densely built-up neighbouthood** and likes living there. Some days, however, Lisa doesn't feel particularly well. Why?



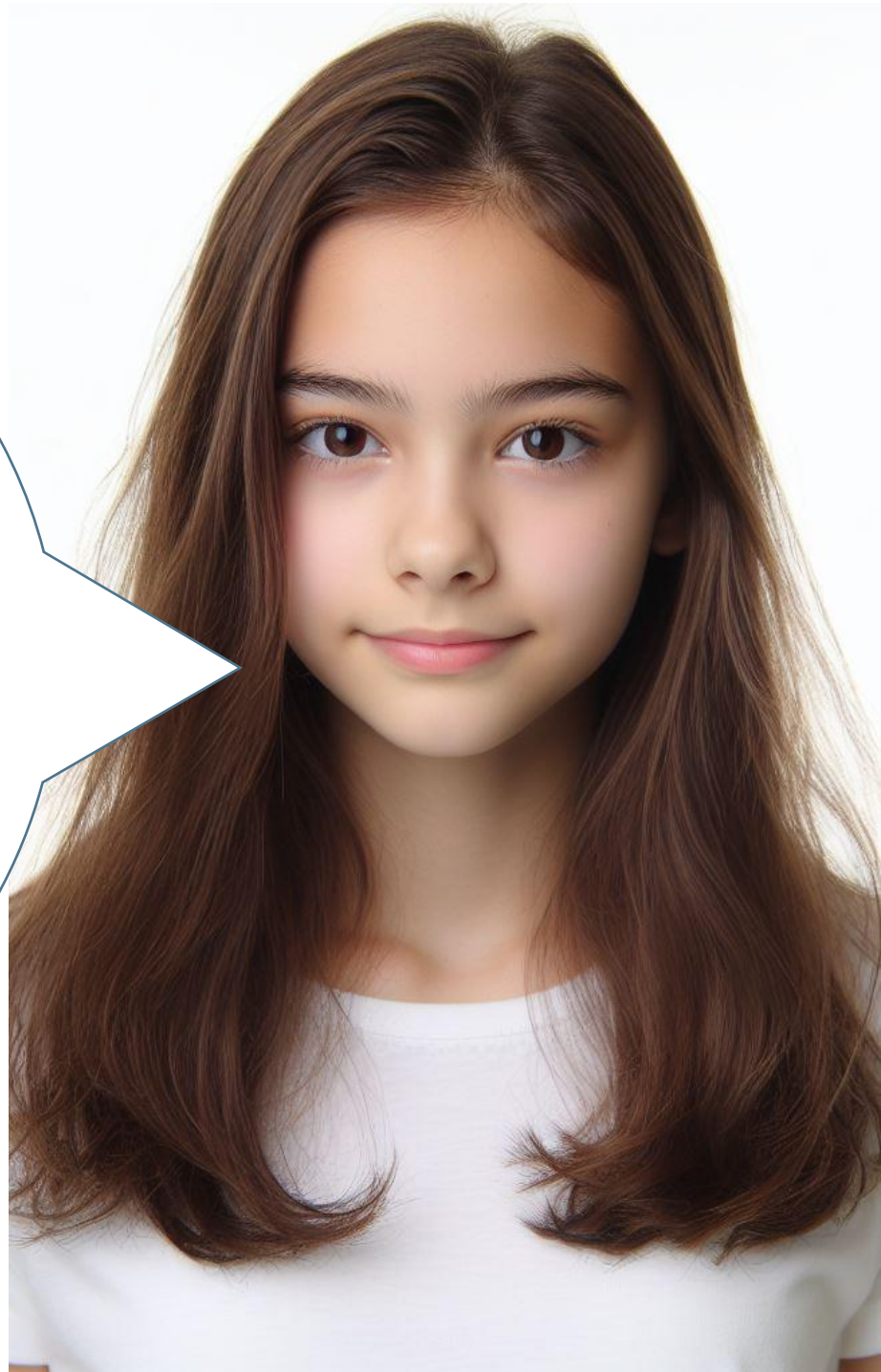
Google Maps: accessed on 26.06.2025





Avatar erstellt mit KI: Bing imagine creator (Microsoft), 04.12.2023

My room has always been warm –
we live in the top floor.
But last summer was terrible.
It didn't get any colder at night
either.
My rabbits are feeling just as bad as I
am.
I've already laid out a few wet
towels.
That way they can cool down a bit.



WHY ARE CITIES BECOMING PARTICULARLY HOT?

- Many heat-storing materials (buildings, cars, etc.)
- Many dark surfaces
- Waste heat, e.g. from industry or air conditioning systems
- Sealed surfaces
- Less green
- Little shade
- Restricted ventilation due to buildings ...

LISA HAS ALREADY RESEARCHED WHAT ELSE COULD HELP AGAINST THE HEAT...

City trees provide cooling even in extreme heat

23.06.2025 | Beate Kittl | WSL News

How to use plants to keep your house cool this summer

ABC Everyday / By **Koren Helbig**

Home

Tue 23 Nov 2021



What is our research question?



Can more urban greenery reduce heat in the city?



What is our assumption (hypothesis)?



Urban greenery reduces heat in the city.

STEPS OF A SCIENTIFIC METHOD …



Image: “The scientific method-simple” by Thebiologyprimer, CC BY-SA 4.0 (https://creativecommons.org/licenses/by-sa/4.0/)



We will now form groups and distribute the worksheets and iPads:

Enjoy!



Closing plenary session
Our results from the project day!





https://dutchcyclinglifestyle.com/,
verändert

Imprint

This material was developed as part of the Erasmus+ project **Green Cool Schools GROW Europe**.

https://www.greencoolschools.eu

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