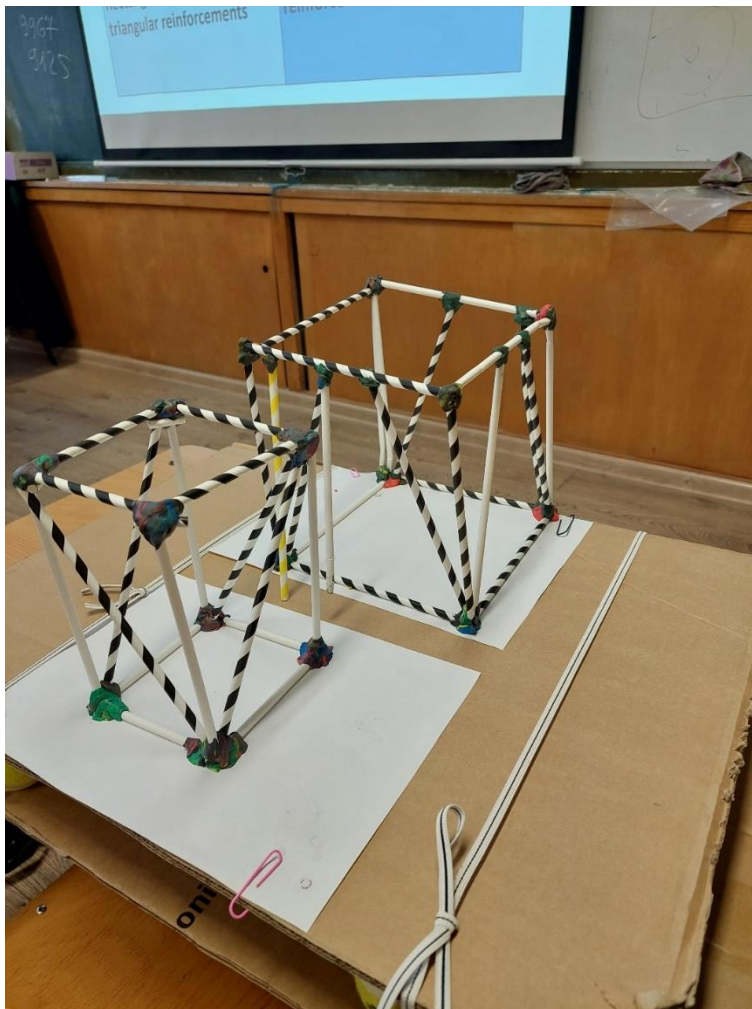
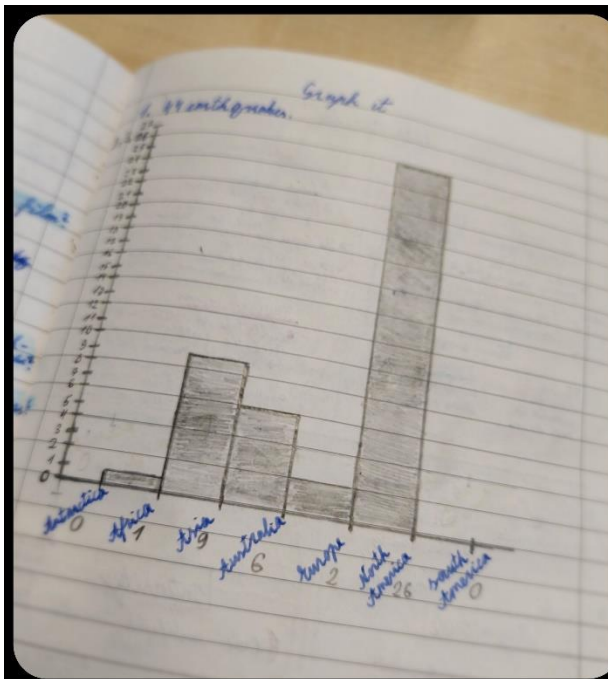


Let's shake it up: An earthquake

Pamokų metu mokiniai susipažino su teorine medžiaga, peržiūrėjo video, taip pat mąstymo mokyklos žemėlapių pagalba analizavo ir sistemino informaciją. Mokiniai analizavo per parą įvykusių žemės drebėjimų statistiką, grupavo žemės drebėjimus pagal vietą (žemynus), braižė stulpelinę diagramą. Mokiniai statė pastatų modelius, aprašė juos, darė hipotezes, kaip pastatai bus paveikti žemės drebėjimo. Po žemės drebėjimų simuliacijos hipotezes paneigė arba patvirtino. Tada modelius tobulino ir kartojo eksperimentą, darė išvadas, kokie pastatai geriau atlaiko žemės drebėjimus, kokie konstrukcijų patobulinimai padeda sustiprinti pastatus. Galiausiai, paruošė informacinį plakatą, kaip elgtis prieš, per ir po žemės drebėjimų.





Structural Observation	My prediction	How did it hold up?
<p>Rectangular prism, made from paper straw and clay, it is large.</p>	I think it will collapse. very	<p>It behaved to one side but didn't collapse completely.</p>
<p>Cube, made from paper straw and clay, it is big.</p>	I think it will collapse very fast quickly.	<p>It completely collapsed, more than rectangular prism.</p>

11th October

P waves (primary waves)

- Passes through earth's layers
- Moves back and forth
- Moves faster than S waves

Body waves

- Passes through earth's layers
- Moves through each layer
- S waves shake the ground up and down
- Surface waves (secondary or shear waves)

Love waves

- Move surface wave
- Only moves the ground side to side
- The deeper the earthquake is, the less severe the waves are

Surface waves

- Rolls like an ocean wave along the earth's surface
- Moves the ground both up and down side to side
- Cause most of the damage; people feel during an earthquake

Magnitude

- Measures the strength of an earthquake
- Often measured on the Richter scale (0-9)
- Determined by seismic wave's amplitude
- 6.0 quake is 10x stronger than 5.1 quake
- Magnitude scale
- More considerably used by seismologists
- Calculated by total amount of energy of an earthquake
- Ranges from negative numbers (uplift) to positive (down)

Intensity

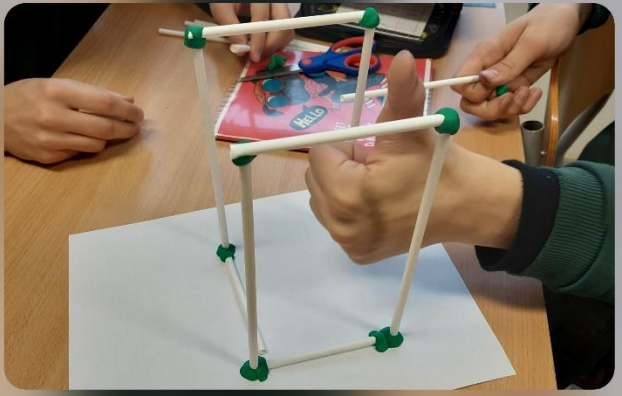
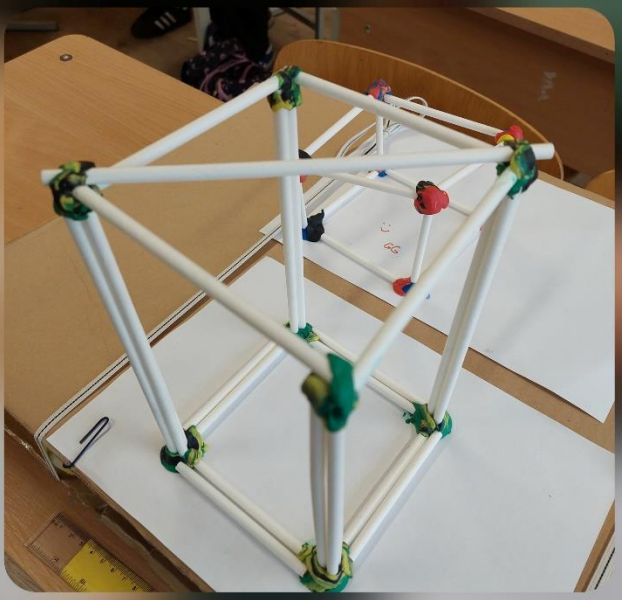
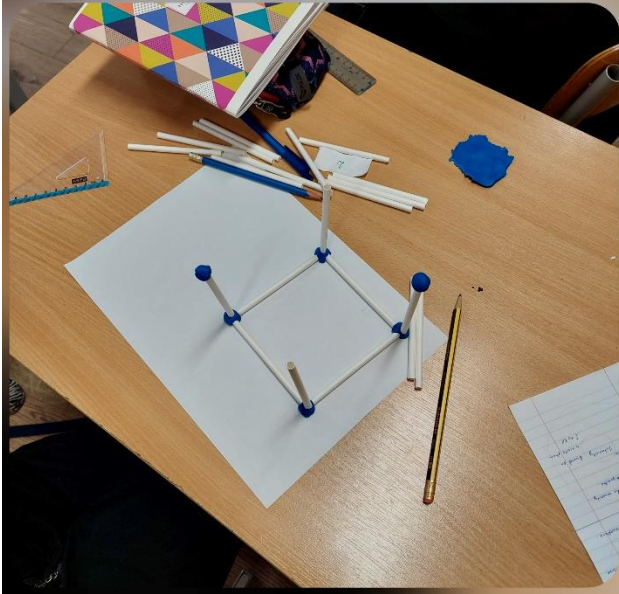
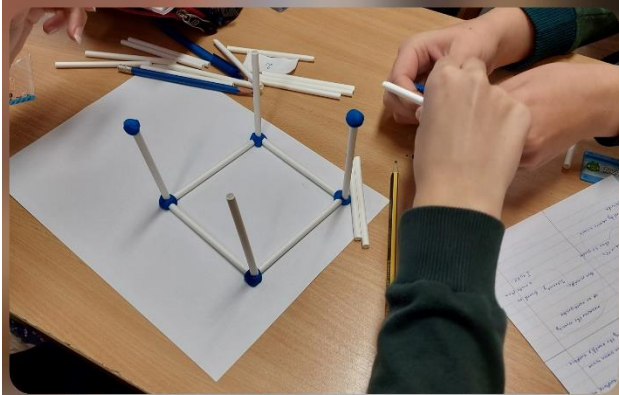
- Measures the severity of an earthquake
- Based on a scale from I to XII
- Hanks-McCall Mercalli scale
- Less scientific
- Relies heavily on human experience and observation
- Damages does not always equate to earthquake strength

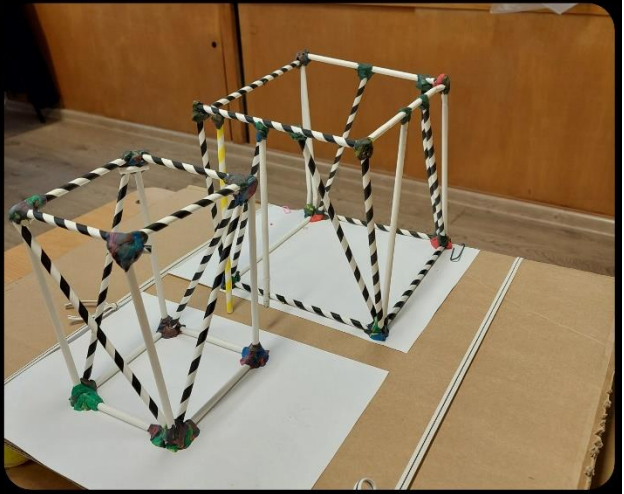
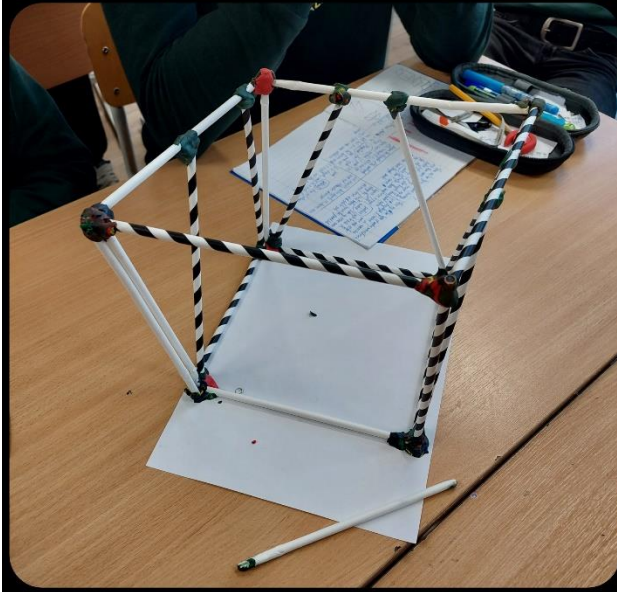
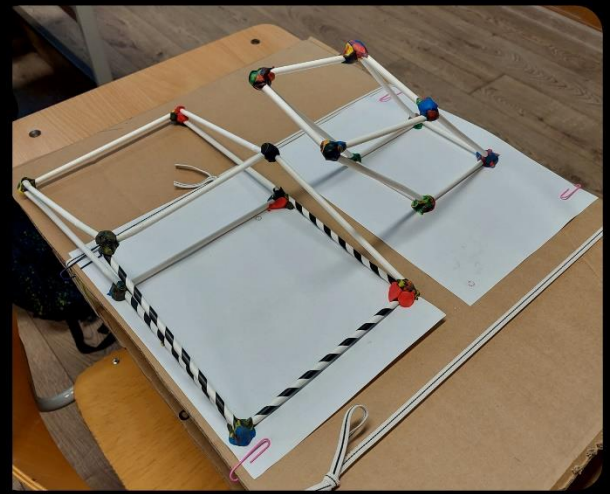
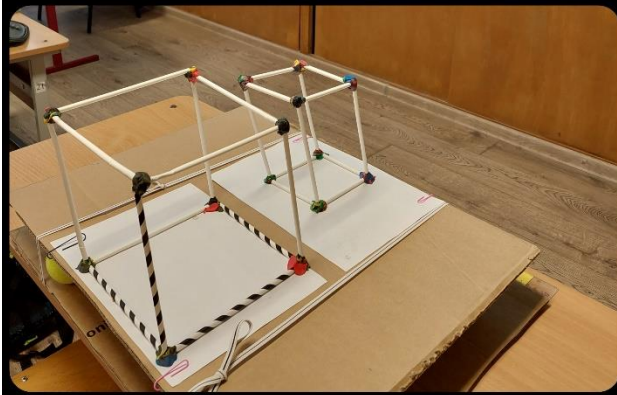
Structural Observation	My prediction	How did it hold up?
<p>Rectangular prism with triangular reinforcements</p> <p>It made from paper straw and clay. It looks stronger.</p>	I think it will hold and not collapse.	<p>It didn't collapse, it stood firm. The reinforcement helped to hold it.</p>
<p>Cube with triangular reinforcements</p> <p>It made from paper straw and more clay. More details on put into it.</p>	I think it will hold up but will be a little damaged.	<p>It didn't collapse, but it wobbled a bit.</p>

14th October

The rectangular prism with triangular reinforcement is stronger compared with other one, compared with cube, because prism is stronger.

To make buildings stronger there can be added more paper straws, more reinforcement.





How to prepare for an earthquake



Before

- Build an emergency kit with items that you will need if you have to evacuate quickly.
- Make a family communications plan.
- Know the safe spots in every room - under a sturdy table or against an inside wall.
- Secure household items.
- Ask your family to hold earthquake drills - drop, cover, and hold on!



During

If Inside

- DROP to the ground.
- Take COVER under a sturdy table or other heavy furniture. If there is nothing to get under, cover your face and head with your arms and crouch near an inside wall. Try your best not to touch your nose, eyes, or mouth.
- HOLD ON until the shaking stops.
- Do not use elevators!
- STAY INSIDE!
- STAY AWAY from windows, glass, lighting fixtures.

If Outside

- Stay there. Move away from buildings, streetlights, and wires.
- Stay out in the open until the shaking stops. Buildings could collapse and hurt you.



After

- Expect aftershocks. They are usually not as strong but can cause damage.
- Do not enter a damaged building.
- Open cabinets carefully. Objects might have moved and could fall on you.
- Wear long pants, long sleeves, and shoes to protect your skin from getting scratched by broken objects.
- Text, don't talk. Unless there's a life-threatening situation, send a text so that you don't tie up phone lines needed by emergency workers. Plus, texting many work even if cell service is down.
- Everyone reacts differently to stressful situations. Take care of your body and talk with your parents or other trusted adults if you are feeling upset.

Lukri Zamdanić 8A

What should you do in an earthquake?

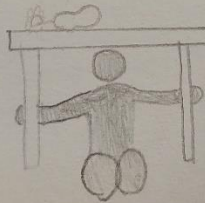
before

1. Have an emergency kit ready.
2. Secure household items.
3. Do yearly earthquake drills.
So you would know what to do.



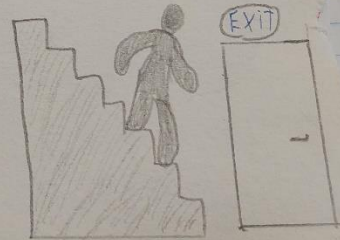
During if inside:

1. Hold onto things.
 2. Stay inside.
 3. Stay away from windows and furniture.
- if outside:
1. Stay there more away from buildings, streetlights and poles.
 2. Stay out in the open building debris could fall onto you.



after

1. do not enter a damaged building.
2. expect aftershocks.
3. that don't call so you wouldn't occupy phone lines.
4. get out of the damaged building by stairs.



Korin Ruznicova 9A.

