



## SPECIAL “DATA ANALYSES WEEK”

### Activity 14

**AIM:** Math for analyses meteorological data. Temperatures in special summer week in all countries – 9:00 and 12:00, from 04. – 08. June 2018.

# Methodology

## **Purpose:**

Point to global changing temperature problem (Global warming). Pupils measure temperatures and process them into the tables. They compare data of the special week in 2018 to special week in historical horizon.

**Target group:** pupils

## **Methods:**

1. Theoretical introduction to the problem.
2. Measurement of temperatures during special week.
3. Processing weather and temperature tables.
4. Comparing data of special week in 2018 to special week in historical horizon.
5. Discussion and connection.

**Solution: table**



## Measuring the temperature



# Solutions of special week morning measurements (at 9 and 12 o'clock) – summer

Special spring week - temperature in °C					
Day / Time - 9:00	1. thermometer	2. thermometer	dig. thermometer	meteo station	Weather conditions
Monday (04.06.2018)	24 °C	24 °C	25 °C (76 %)	25,2 °C (78 %)	partly cloudy
Tuesday (05.06.2018)	24 °C	24 °C	24,5 °C (60 %)	24,7 °C (58 %)	cloudy, rainy
Wednesday (06.06.2018)	18 °C	18 °C	20,8 °C (84 %)	21,3 °C (90 %)	rainy
Thursday (07.06.2018)	19 °C	19 °C	22,1 °C (82 %)	23 °C (84 %)	partly cloudy
Friday (08.06.2018)	21 °C	21 °C	24,9 °C (58 %)	23,2 °C (62 %)	sunny
Day / Time - 12:00	1. thermometer	2. thermometer	dig. thermometer	meteo station	Weather conditions
Monday (04.06.2018)	25 °C	25 °C	26 °C (76 %)	27,2 °C (78 %)	partly cloudy
Tuesday (05.06.2018)	26 °C	26 °C	26,3 °C (60 %)	25,7 °C (58 %)	cloudy, rainy
Wednesday (06.06.2018)	23 °C	23 °C	23,8 °C (84 %)	24,3 °C (90 %)	rainy
Thursday (07.06.2018)	22 °C	22 °C	23,1 °C (82 %)	23,5 °C (84 %)	partly cloudy
Friday (08.06.2018)	23 °C	23 °C	24,9 °C (58 %)	25,2 °C (62 %)	sunny

# Solutions of special week midday measurements (at 9 and 12 o'clock) - autumn

Special spring week - temperature in °C					
Day / Time - 9:00	1. thermometer	2. thermometer	dig. thermometer	meteo station	Weather conditions
Monday (24.09.2018)	10 °C	10 °C	12 °C (63 %)	12,3 °C (49 %)	cloudy, strong wind
Tuesday (25.09.2018)	7 °C	7 °C	8,3 °C (64 %)	8,4 °C (56 %)	partly cloudy, light wind
Wednesday (26.09.2018)	5 °C	5 °C	6,6 °C (67 %)	6 °C (59 %)	partly cloudy
Thursday (27.09.2018)	5 °C	5 °C	7,6 °C (56 %)	7,5 °C (61 %)	partly cloudy, light wind
Friday (28.09.2018)	10 °C	10 °C	12 °C (64 %)	12,2 °C (61 %)	sunny
Day / Time - 12:00	1. thermometer	2. thermometer	dig. thermometer	meteo station	Weather conditions
Monday (24.09.2018)	12 °C	12 °C	17,4 °C (47 %)	17,7 °C (44 %)	cloudy, strong wind
Tuesday (25.09.2018)	11 °C	11 °C	16,7 °C (44 %)	17,4 °C (42 %)	cloudy, light wind
Wednesday (26.09.2018)	10,5 °C	10,5 °C	13,9 °C (51 %)	14 °C (51 %)	sunny
Thursday (27.09.2018)	12 °C	12 °C	15,7 °C (59 %)	15,8 °C (51 %)	partly cloudy, light wind
Friday (28.09.2018)	17 °C	17 °C	19,3 °C (47 %)	19,5 °C (45 %)	sunny, light wind





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