



Worksheet

« The Thermo Shapes »

Level of difficulty	Level 1	
Duration of the activity	20 to 30 minutes	
Number of participants	1/2 class or 16 students maximum	
Mathematical concept	Temperature reading on a thermometer	
Inventory of the hands-on exhibit	 8 thermometers (3D printing) 8 object bases with different shapes engraved that correspond to each thermometer (3D printing) 	

Instruction	 A maximum of 8 thermometers are hidden in the classroom / playground / hall.
	 In pairs, find one of the hidden thermometers.
	 Come back to the teacher and place the thermometer on the correct base.
	 Replace the thermometer in the same place and look for a new thermometer.
	 Repeat the procedure until you find all the seasons.
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Step by step	Description	Illustration
Step 1	 In pairs, find a thermometer hidden in the school playgrounds. 	

Step 2	 Once you have found the thermometer, go to the teacher. 	
Step 3	 On the table in front of the teacher, thermometer bases are made available. 	Bases
	 Match the thermometer to its base. (The objects represented on the bases symbolise a season.) 	
Step 4	 Take the thermometer back and hide it in the place where you found it 	
Step 5	Repeat 4 times, steps 1 - 2 - 3 - 4.	X 4

Step 6	- Make a temperature assessment with the teacher. (Cold - Hot)	Iow mercury = COLD Image: COLD
Final Step	 Rank thermometers from coldest to warmest 	
Final step bis	- Position the thermometers on their bases and classify them according to the seasonal cycle: Spring, Summer, Autumn, Winter. (the drawings of the bases symbolize each season, in Western Europe)	Spring Summer Autumn Winter

To Go Further

Level 2

Use the same thermometers, adding numbers to indicate measurements in degrees Celsius (3D printed bar from -10° to 35°)

