

# What is weather?

PHYSICAL SCIENCES

## Get curious

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Discussion

### **What is weather?**

**The students share their knowledge about weather.**

What are the factors affecting weather?  
Where do they come from?  
How do these factors determine weather changes?

Initiate a class discussion and encourage your students to share what they know as well as their experiences.

Video/ Slide show

### **What is weather?**

## Get going

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Experiment

### **How does wind form?**

The students watch as heated air sets a paper spiral in motion.

You will find the instruction in the Instruction tab.



After the demonstration, ask your students the following questions:

What did you observe?

Has the spiral started to rotate?

Why?

Do you know now how wind forms?

Discussion

### **How do clouds form?**

Discuss the following with your students.

What is a cloud?

What impact do clouds have on weather?



Experiment

### **How do clouds form?**

The students experiment and learn how clouds are formed. Together with your students, use balloons, bottles, and cold and hot water, and check the first element of cloud formation – through heating up, the air rises, and when it gets cooler, it falls down.



During the experiment, ask your students the following questions:

What do you observe?

What is happening to the balloons? Why?

In what way can we relate this experiment to cloud formation?

Where else can you observe this phenomenon? Do you remember the previous experiment?

Experiment

### **How does a cloud form?**

With the help of hot water, ice and matches, the students will create clouds in jars and learn how water vapor from the air turns into a cloud and then into rain.



Did you see the cloud inside the jar?

Creative expression

### **Design weather symbols.**

Discuss with your students the weather symbols that you will find in the presentation.

What are weather symbols?

What is the meaning of each symbol?

How are the symbols designed? Is it difficult or easy to understand them?

Working in teams, the students design their own sets of weather symbols.



## **Get practicing**

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Observing

### **Observe the weather for a week.**

Each student observes the weather for a week and records the results using the symbols they have designed as well as weather record cards that can be found in the appendices.

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