

### Storm on a dessert spoon

Below is a super quick experiment. It allows us make rain drops in the same way a rain storm is created. It's exactly the same process but on a much smaller scale.

#### What you'll need...

- Kettle
- A large spoon or small hand mirror can be used
- Freezer
- An oven mitt

#### What to do...

1. Put spoon in the freezer for half an hour
2. Ask a grown up to boil water in the kettle
3. When the kettle reaches the boiling point, the spoon in the steam/water vapor. Wear the oven mitt when you do this.

#### What are you looking for?

When the liquid in the kettle boils, it is converted to steam (vapor) due to hitting the cold air outside the kettle. When this steam hits the frozen spoon (outside the kettle), it cools and condenses into water drops, producing a miniature rain storm!

This is how all rain storms occur on the planet! The only difference is an electric kettle, instead of the Sun, is the heat that powers our tiny rainstorm.

It's possible to see the entire water cycle just using a kettle and frozen spoon. As you saw when water vapor hits a cold spoon, it cools and condenses into water to produce raindrops on the spoon.

In nature; heat from the Sun allows tiny water molecules to evaporate (change from liquid to gas). As the warm, water-filled air rises, it cools, and a cloud of water vapor forms. As cold air can't hold as much water as warm air, some of the water condenses and falls back to earth as rain, ice or snow.

*Courtesy of sciencewithme.com*

