



## Careers in STEM: Mathematics

### Meteorologist

Meteorologists work to study weather patterns to predict weather and study the causes of particular weather conditions. Meteorologists will work in either forecasting or research in a wide range of industries including aviation and shipping, farming and governmental services.

Meteorologists working in forecasting will collect information from weather satellites and weather stations, measure weather conditions and predict the weather by analysing information and using specialist computer software. They will also present the predictions as weather reports to clients and customers.

Meteorologists working in research will monitor climate and weather changes, research forecasting technologies and techniques and apply their research to predict and prepare for damaging weather events.

Useful skills for Meteorologists are:

- good mathematical and geographical skills
- an interest in weather and identifying patterns
- analytical thinking skills and ability to write scientific reports

Meteorologists will have a good background in mathematics and employers look for a degree or equivalent qualification in science, maths or a related subject like geography. The Met Office usually asks for a degree or equivalent for applications to their forecasting and observations course. A postgraduate degree in meteorology is required for research posts and may help with career progression. Work experience may be helpful, and the Met Office offer summer placements for A Level students and work experience for anyone aged between 14 and 17.

Visit the following websites for more information about futures in meteorology:

<https://www.prospects.ac.uk/job-profiles/meteorologist>

<https://nationalcareers.service.gov.uk/job-profiles/meteorologist>

<https://www.metoffice.gov.uk/careers/your-career/forecasting--observations>