Module 6: Technologies in Meteorology

## Satellite Imagery

Watch the video and explore the links from the Bureau of Meteorology webpage, [about satellite images](http://www.bom.gov.au/australia/satellite/about_images.shtml). Answer the questions below.

1. Describe the features of Himawari-8 and the information it provides meteorologists.
2. Why is the information from Himawari-8 an improvement on the information provided by previous satellite technologies?

## Radar

Read through the Bureau of Meteorology webpage, [how radar works](http://www.bom.gov.au/australia/radar/about/what_is_radar.shtml), and answer the questions below.

1. Explain how radar works in predicting meteorological events.
2. Assess how radar has increased the reliability of predicting meteorological events since the early 20th century.

Skim through the report from the Queensland Government: [Understanding floods: managing flood risks.](https://www.chiefscientist.qld.gov.au/publications/understanding-floods/managing-flood-risks)

The following is a 9 mark HSC style question. Write a suitable response.

Explain how improvements in meteorological technologies and communication can reduce damage to life and infrastructure from flood events in Australia.

In your answer:

* Outline specific damage to life and infrastructure caused by floods.
* Refer to all three sources in this task.