


# Module 3

## Surveying

### A • Ordnance survey

1  **WARM UP.** In a group or in pairs, choose a word or topic in the box below and explain it to the class.

Commonwealth • copyright • county • electronic mapping • the Napoleonic Wars  
• utility companies

2  Read the text below and decide if these sentences are true or false.

- |   |   |
|---|---|
| 1. Ordnance Survey is a private agency.                     | <input type="checkbox"/> T <input type="checkbox"/> F |
| 2. The name comes from its military origin.                 | <input type="checkbox"/> T <input type="checkbox"/> F |
| 3. Ordnance Survey produces only paper maps.                | <input type="checkbox"/> T <input type="checkbox"/> F |
| 4. Its maps are used by both private and public bodies.     | <input type="checkbox"/> T <input type="checkbox"/> F |
| 5. Ordnance survey maps are used mainly in British schools. | <input type="checkbox"/> T <input type="checkbox"/> F |

**Ordnance Survey** is a department of the United Kingdom government. It is the national mapping agency for Great Britain and one of the world's largest producers of maps. The name (*ordnance*: heavy guns, cannon, artillery) reflects the original military purpose of the organisation in mapping Britain during the Napoleonic Wars when there was a threat of invasion from France. Ordnance Survey of Great Britain maps are copyright for 50 years after their date of publication.

In 1995, Ordnance Survey digitised the last of about 230,000 maps, making the United Kingdom the first country in the world to complete a programme of large-scale electronic mapping. Ordnance Survey produces a large variety of paper and digital maps aimed at business users (such as utility companies) and local authorities.

The one-sheet maps generally cover a county-sized area, showing major and minor roads, tourist information and special footpaths. Ordnance Survey also produces maps for educational use. These are widely seen in schools in Great Britain and in the Commonwealth countries or as parts of geography textbooks.



### 3 Complete the passage with the correct alternative for each space from the table below.

Modern Ordnance Survey maps are largely based on aerial photographs. Ordnance Survey has a team of surveyors across Great Britain (1) ..... visit and survey areas that (2) ..... be surveyed using photogrammetric methods (such as land obscured by vegetation) and aims to ensure that (3) ..... major feature (such as a new motorway or large housing development) is surveyed within six months of its construction. (4) ..... original survey methods were largely manual, the current surveying task is simplified by the use of GPS technology, allowing the (5) ..... precise surveying standards. Ordnance Survey is responsible for a UK network of GPS stations, (6) ..... as OS Net. Ordnance Survey maps of Great Britain (7) ..... not use latitude and longitude to indicate position but a special grid which is technically known as *OSGB36* (Ordnance Survey Great Britain 1936).



The Ordnance Survey maps of Great Britain use the *Ordnance survey National Grid*

1.	a.	<i>which</i>	b.	<i>how</i>	c.	<i>who</i>
2.	a.	<i>cannot</i>	b.	<i>shouldn't</i>	c.	<i>mustn't</i>
3.	a.	<i>no</i>	b.	<i>some</i>	c.	<i>any</i>
4.	a.	<i>When</i>	b.	<i>While</i>	c.	<i>Where</i>
5.	a.	<i>most</i>	b.	<i>less</i>	c.	<i>more</i>
6.	a.	<i>know</i>	b.	<i>known</i>	c.	<i>knew</i>
7.	a.	<i>does</i>	b.	<i>are</i>	c.	<i>do</i>

**YouTube** How Ordnance Survey makes maps

### 4 Look at the road information and the map given and answer the questions.

- Can you reach Bristol by train?
- Is there an airport in Bristol? Where?
- If you have to go from Bath to Frome, what is the best route?
- Do any motorways reach Bath?
- If you are going from Bristol to Chepstow, what motorway do you have to take?
- What does the letter "S" on the motorway symbols mean?
- Is there a river near Bristol?
- Is there any woodland area on the map? What colour is it?

## ROAD INFORMATION

	Motorway
	Toll motorway
	Motorway junction with full / limited access
	Motorway service area with off road / full / limited access
	Primary route number
	Dual carriageway
	Single carriageway
	With passing places
	'A' road number
	Dual carriageway
	Single carriageway
	With passing places
	'B' road number
	Dual carriageway
	Single carriageway
	With passing places
	Minor road
	Road with restricted access
	National park boundary
	Regional park boundary
	Forest park boundary
	Military range
	Woodland
	Spot height in metres
	Summit height in metres
	Lake / Dam / River / Waterfall
	Canal / Dry canal / Canal tunnel
	Beach
	Long distance footpath
	Golf course

## CITIES, TOWNS & VILLAGES

	Built up area / suburb
	Large town or city
	Town / small town
	Village / hamlet / settlement

	Road proposed or under construction
	Multi-level junction with full / limited access (occasionally with junction number)
	Roundabout
	Road distance in miles between markers
	Road tunnel
	Steep hill (arrows point downhill)
	Level crossing / Toll

## OTHER TRANSPORT INFORMATION

	Car ferry route
	Railway line / station / tunnel
	Preserved railway / station
	Airport with scheduled services
	Heliport

## OTHER FEATURES

	National boundary
	County / Unitary Authority boundary and name



