

EZYMATHS BEARINGS CONTENT

A complete virtual teaching model for every maths topic in the GCSE and iGCSE Maths syllabus. All 385 assessments are covered with the same depth and quality.

EZYMATHS TOPIC COVERAGE

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| <ol style="list-style-type: none"> 1 Determine bearing start points 2 Draw north lines and measure angles clockwise from start point north line 3 Understand sentence structure to enable accurate interpretation of bearings | <ol style="list-style-type: none"> 4 3-Digit rule for specifying bearings 5 North lines are parallel 6 Co-interior angles = 180°
Angles around a point = 360° |
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FOR AQA, EDEXCEL & OCR BOARDS

LECTURE VIDEO CLICK TO SEE VIDEO

EZY MATHS

A total of 360°

What is a bearing?

Used a lot in

1:57

EZY MATHS

The bearing of B from A is 075° , What is the bearing of A from B?

North

Clockwise

The bearing of A from B = 255°

Angles around a point = 360°

7:20

RECAP THE KEY PARTS OF THE TOPIC WITH OUR **SHORT RECAP VIDEOS**

EZY MATHS

Bearings

<p>Angle clockwise from North</p> <p>075°</p> <p>Clockwise</p> <p>310°</p> <p>Clockwise</p>	<p style="background-color: red; color: white; padding: 2px; display: inline-block;">Always 3 digits</p> <p>$75^\circ \rightarrow 075^\circ$ $4^\circ \rightarrow 004^\circ$</p> <p style="background-color: red; color: white; padding: 2px; display: inline-block;">Sentence Structure important</p> <p>The bearing of B from A is 075°</p>	<p style="background-color: green; color: white; padding: 2px; display: inline-block;">Lines North are parallel</p> <p>Clockwise</p> <p>Co-Interior Angles</p> <p>Angles around a point</p> <p>$75^\circ + \theta = 180^\circ$ $\theta = 180^\circ - 75^\circ = 105^\circ$</p> <p>$105^\circ + \phi = 360^\circ$ $\phi = 360^\circ - 105^\circ = 255^\circ$</p> <p>The bearing of A from B is 255°</p>
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83

CLICK TO SEE RECAP VIDEO

EZY MATHS

Geometry – Bearings

Angle clockwise from North

3 digits

Lines North are Parallel

075°

075°

004°

310°

Co-Interior Angles

Angles around a point

1:01

- | | |
|-----------------------|------------------|
| DEFINITIONS | FORMAT |
| INTERPRETING DIAGRAMS | SOLVING PROBLEMS |

BEARINGS ASSESSMENT PREVIEW SHEET

Click **Feedback Video** under each question for individual question feedback.

Q1 1 MARK

The diagram shows two capital cities, London (L) and Athens (A). What is the bearing of London from Athens?

Diagram not to scale

One mark is awarded for each step answered correctly.

Bearings

The diagram shows two capital cities, London (L) and Athens (A). What is the bearing of London from Athens?

- Locate North
- Follow Clockwise
- Co-Interior Angles

$360^\circ - 65^\circ = 295^\circ$

Q1 FEEDBACK VIDEO

Q2 1 MARK

Work out the bearing of (A) from (B).

Diagram not to scale

One mark is awarded for each step answered correctly.

Bearings

Work out the bearing of (A) from (B).

- Locate North
- Follow Clockwise
- Co-Interior Angles
- Angles on a Point

$360^\circ - 135^\circ = 225^\circ$

Q2 FEEDBACK VIDEO

Q3 1 MARK

Work out the bearing of (A) from (O).

Diagram not to scale

Bearings

Work out the bearing of (A) from (O).

- Locate North
- Follow Clockwise
- Co-Interior Angles

$180^\circ - 140^\circ = 40^\circ$

Q3 FEEDBACK VIDEO

Q4 1 MARK

What is the bearing of (Q) from (P).

Diagram not to scale

Bearings

What is the bearing of (Q) from (P).

- Locate North
- Follow Clockwise
- Alternate Angles
- Angles on a Point

$360^\circ - 68^\circ = 292^\circ$

Q4 FEEDBACK VIDEO

Q5 1 MARK

What is the bearing of (A) from (B).

Diagram not to scale

Bearings

Work out the bearing of (A) from (B).

- Locate North
- Follow Clockwise
- Alternate Angles

079°

Q5 FEEDBACK VIDEO

Q6 1 MARK

David is at a river (R) and is looking for his campsite (C). To get to the river he took a bearing of 049° from his campsite. Work out the bearing of the campsite from the river so Dave can get back to camp.

Diagram not to scale

Bearings

David is at a river (R) and is looking for his campsite (C). To get to the river he took a bearing of 049° from his campsite. Work out the bearing of the campsite from the river so Dave can get back to camp.

- Locate North
- Follow Clockwise
- Co-Interior Angles

$360^\circ - 131^\circ = 229^\circ$

Q6 FEEDBACK VIDEO

Q7 2 MARKS

Using the diagram below, work out the bearing of (B) from (C) and (D) from (C).

Diagram not to scale

One mark is awarded for each correct answer.

Bearings

Work out the bearing of:

- B from C
- D from C

- Locate North
- Follow Clockwise
- Angles on a Point

a) 070°
b) 105°

Q7 FEEDBACK VIDEO

Q8 1 MARK

What is the bearing of (Z) from (Y).

Diagram not to scale

Bearings

What is the bearing of (Z) from (Y).

- Locate North
- Follow Clockwise
- Co-Interior Angles

$118^\circ - 99^\circ = 19^\circ$

Q8 FEEDBACK VIDEO

Q9 1 MARK

What is the bearing of (D) from (E).

Diagram not to scale

Bearings

What is the bearing of (D) from (E).

- Locate North
- Follow Clockwise
- Angles in a Triangle
- Co-Interior Angles

$30^\circ + 31^\circ = 61^\circ$

Q9 FEEDBACK VIDEO

Q10 1 MARK

Sarah is at her home (H) and she wants to go to the Supermarket (S) followed by the Cinema (C). She wants to know the bearing of the Cinema from the Supermarket so she doesn't get lost. With help from the diagram, work out the bearing she needs.

Diagram not to scale

One mark is awarded for each step answered correctly.

Bearings

Sarah is at her home (H) and she wants to go to the Supermarket (S) followed by the Cinema (C). She wants to know the bearing of the Cinema from the Supermarket so she doesn't get lost. With help from the diagram, work out the bearing she needs.

- Locate North
- Follow Clockwise
- Angles in a Triangle
- Co-Interior

$85^\circ + 32^\circ = 117^\circ$
 $126^\circ - 85^\circ = 41^\circ$
 931°

Q10 FEEDBACK VIDEO

EXPLAIN

All video explanations demonstrate pragmatic process to showcase accumulation of technique marks.

ASSESS

Assess strength of understanding via application challenges.

CEMENT

Application explanations to cement understanding.

BEARINGS ASSESSMENT PREVIEW STRUCTURE

All video explanations demonstrate pragmatic process to showcase accumulation of technique marks.

Specification Subject Content Guidance - BEARINGS

STEP 1 UNDERSTAND QUESTION

STEP 4 ANGLES IN A TRIANGLE

STEP 2 LOCATE NORTH

STEP 5 CO-INTERIOR ANGLES

STEP 3 FOLLOW CLOCKWISE

STEP 6 FORMAT ANSWER

BOARD	Specification Subject Content Guidance
AQA GCSE	<ul style="list-style-type: none"> Measure line segments and angles in geometric figures, including interpreting maps and scale drawings and use of bearings - include eight compass point bearings and three-figure bearings.
Edexcel GCSE	<ul style="list-style-type: none"> Measure line segments and angles in geometric figures, including interpreting maps and scale drawings and use of bearings.
OCR GCSE	<ul style="list-style-type: none"> Use the scale of a map, and work with bearings.
Edexcel iGCSE	<ul style="list-style-type: none"> Measure line segments and angles in geometric figures, including interpreting maps and scale drawings and use of bearings.
	<ul style="list-style-type: none"> Apply trigonometrical methods to solve problems in two dimensions (to include bearings)
Cambridge iGCSE	<ul style="list-style-type: none"> Interpret and use three-figure bearings measured clockwise from the North, i.e. 000°–360°.