Blurt it

Step 1

Name _____ **Date** _____

1. Cover your notes and put your phone face down.
2. Set a timer for 5 minutes.
3. Write down everything you remember about right-angled trigonometry (SOHCAHTOA): methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: opposite · adjacent · hypotenuse

When the timer ends, turn over and check what you remembered.

Speca is an independent product and is not affiliated with, endorsed by, or sponsored by AQA or any other exam board.

Check it, fix it, space it

Steps 2, 3 and 4

Check it

Tick each idea you wrote down, even in your own words.

- [ ] Label the sides from the marked angle: opposite, adjacent and hypotenuse
- [ ] Opposite and adjacent depend on which angle you use, not on how the triangle is turned
- [ ] sin = opposite ÷ hypotenuse, cos = adjacent ÷ hypotenuse, tan = opposite ÷ adjacent
- [ ] Pick the ratio that uses the two sides you know or want
- [ ] Missing side: write the ratio, then multiply or divide to find the side
- [ ] Missing angle: use the inverse sin, cos or tan key on your calculator
- [ ] Check your calculator is in degrees mode
- [ ] Angles of elevation and depression are measured from the horizontal
- [ ] Know the exact values of sin, cos and tan for 0°, 30°, 45°, 60° and 90° without a calculator
- [ ] For example, sin 30° = cos 60° = ½, tan 45° = 1 and sin 90° = 1

Higher only

- [ ] No right angle? Use the sine rule or the cosine rule, not SOHCAHTOA
- [ ] Sine rule: $a \div \sin A = b \div \sin B = c \div \sin C$, each side paired with its opposite angle
- [ ] Cosine rule: $a^2 = b^2 + c^2 - 2bc \cos A$
- [ ] Use the cosine rule with two sides and the included angle, or with all three sides
- [ ] Area of a triangle = ½ab sin C, where C is the angle between sides a and b
- [ ] Combine trigonometry with Pythagoras or bearings in multi-step problems

Key words to use: opposite · adjacent · hypotenuse · sine · cosine · tangent · angle of elevation
angle of depression · sine rule · cosine rule · included angle

I remembered _____ out of 10. **Higher only: _____ out of 6.**

Fix it

Pick 3 ideas you missed. Look them up, then write each one correctly.

1

2

3

Space it

Blurt again on a fresh sheet. Gaps help you remember for longer.

Tomorrow
Date _____
Score _____ / 10
Higher only _____ / 6

In 3 days
Date _____
Score _____ / 10
Higher only _____ / 6

In a week
Date _____
Score _____ / 10
Higher only _____ / 6

Speca is an independent product and is not affiliated with, endorsed by, or sponsored by AQA or any other exam board.