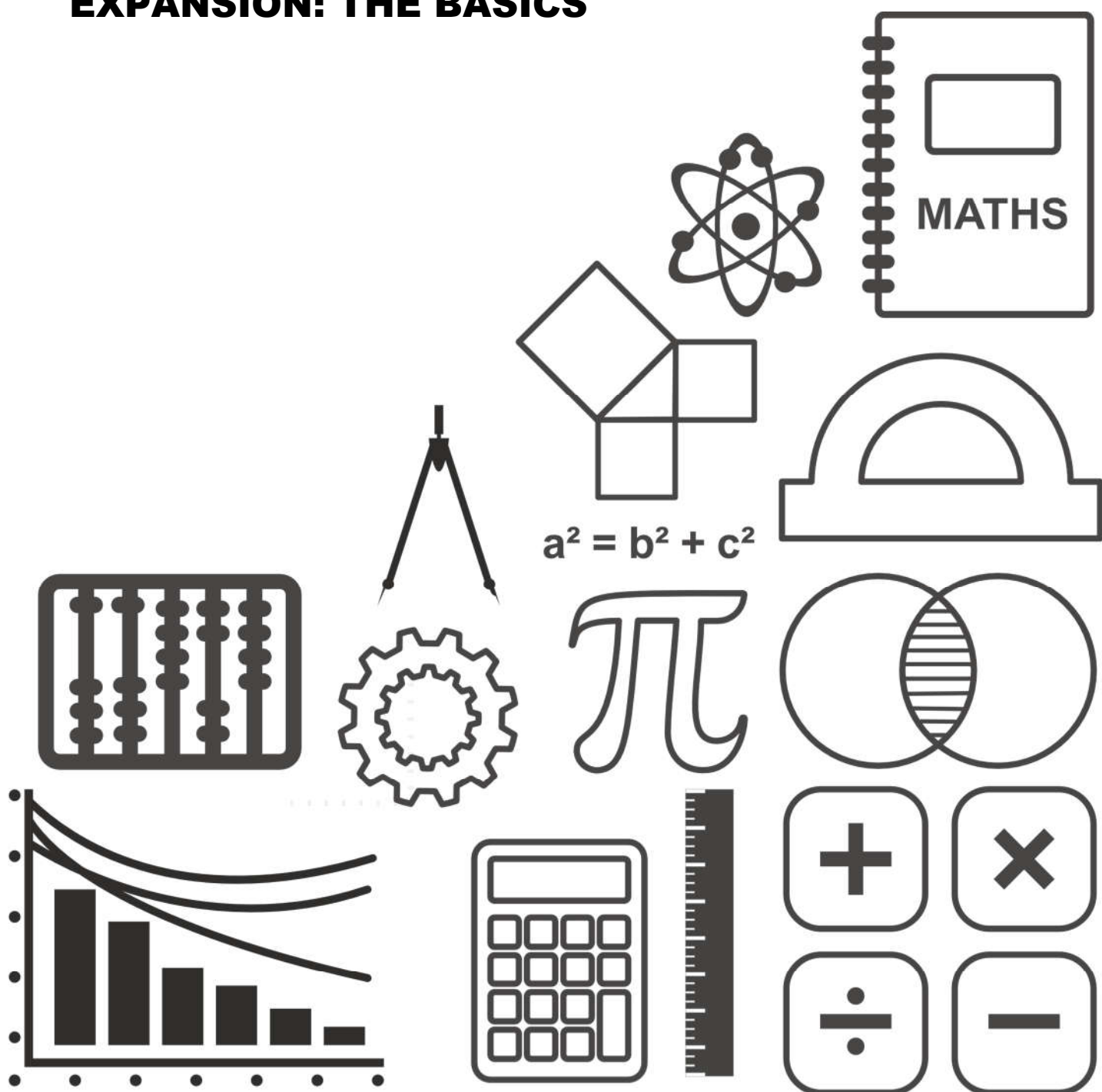


# MATHSDIY

## GCSE TOPIC BOOKLET EXPANSION: THE BASICS



1. a) Expand  $5(x - 2)$ .

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(1)

b) Expand  $4(x - 3)$ .

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(1)

c) Expand  $6(x - 5)$ .

.....  
(1)

2. a) Expand and simplify  $4(3x - 1) + 3(x - 5)$ .

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.....  
(2)

b) Expand the following expression, simplifying your answer as far as possible.

$$4(x - 2) + 3(2x + 5).$$

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.....  
.....  
(2)

c) Expand  $2x(x^2 + 3)$ .

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(2)

3. a) Expand and simplify:  $4(2y - 3) - 3(y + 5)$

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.....  
.....

(2)

b) Expand  $x^3(3x - 5)$ .

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.....

(2)

4. a) Expand  $5(x + 8)$ .

.....

(1)

b) Expand  $x(x^2 + 7)$ .

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.....

(2)

5. a) Expand and simplify:  $4(x + 5) - 3(2x - 4)$

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(2)

b) Expand  $5y(2y^2 - 3)$ .

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(2)

6. a) Expand and simplify  $4(2x + 3) - 3(x + 2)$ .

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(2)

b) Expand the following expression, simplifying your answer as far as possible.

$$3(4a - 2c) - 2(2a + 4c).$$

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.....

(2)

7. a) Expand and simplify  $3(2a - 4) - 3(a - b)$ .

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(2)

b) Expand the following expression, simplifying your answer as far as possible.

$$3(4r - 2s) - 2(r + 4s).$$

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.....  
.....

(2)