ALGEBRA, LIKE TERMS AND EXPANDING BRACKETS

## RESEARCH

Research what it means to factorise expressions and how it might relate to this homework moving forward in the topic.
Unscramble the two sets of letters and describe the words related to this topic!

Name: $\qquad$

MEMORY
Remember when we multiply algebraic expressions we add the powers!
e.g. $2 x^{2} \times 4 x^{3}=8 x^{6}$

Remember that when there is no powers we have a 'secret 1'
e.g. $2 x$ can also be written as $2 x^{1}$

$$
\text { So } 2 x^{1} \times 5 x^{2}=10 x^{3}
$$

## STRETCH

1. Simplify the following expressions
a) $3 a b \times 4 b$
b) $5 a^{2} b \times 3 a^{2} b$
2. Expand and simplify the following brackets:
a) $2 a b(3 b-5)$
b) $4 a b\left(2 a^{2} b+8 b\right)$
