## ANGLES

## Name:

Assessment Criteria: Identify alternate and corresponding angles; understand a proof that the sum of the angles of a triangle is $180^{\circ}$ and of a quadrilateral is $360^{\circ}$.
$1 a$.

b.


The angles marked by red dots are sometimes called 'Z-angles'. What is their proper name?

What is special about angles like this?

The angles marked by blue dots are sometimes thought of as 'sliding-angles'. What is their proper name?

What is special about angles like this?
2. On the diagram below, mark a pair of angles (using red spots) that are the same type as in (1a). Then, using blue spots, mark a pair of angles that are the same type as in (1b).

3. Use the following diagram to prove that the angles of a triangle have a sum of $180^{\circ}$.

4. Use the following diagram to prove that the angles of a quadrilateral have a sum of $360^{\circ}$.


| Low | High |
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| $\bigcirc \bigcirc \bigcirc \bigcirc{ }^{\circ} \bigcirc{ }^{\circ} \mathrm{O}$ |  |

Overall, I think my success level is:

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I need to practise ...

