Geometry glossary

Activity 1: Here is a list of words belonging to the vocabulary of geometry.

- acute
- altitude
- ruler
- diameter
- tangent line
- vertex
- obtuse
- rhombus
- half-ray
- isosceles
- perpendicular bisector
- set square
- to intersect at
- the Pythagorean theorem
- radius
- to draw
- orthocenter
- circumference
- parallelogram
- line segment
- center
- kite
- endpoints
- sector
- parallel
- to label
- square
- straight line
- compasses
- inscribed circle
- to locate
- protractor
- Pythagoras' theorem
- centroid
- chord
- right-angled triangle
- angle bisector
- midpoint
- length
- to meet at
- equilateral
- perpendicular
- rubber
- rectangle
- to pass through
- width
- trapezium
- intersection
- arc
- to extend
- perpendicular height
- to lie on
- circumcircle
- hypotenuse
- side
- to join
- concurrent
- median
- to rub out
- breadth
- to mark.

Fill in the table below and classify them according to the item they are in connection with (some of them can belong to more than one field):

<table>
<thead>
<tr>
<th>Triangles</th>
<th>Quadrilaterals</th>
<th>Remarkable lines and points in a triangle</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Points and lines</th>
<th>Circle</th>
<th>Tools</th>
<th>Verbs</th>
</tr>
</thead>
<tbody>
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<td></td>
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</tbody>
</table>

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**Activity 2:** Fill in the gaps with one of the following verbs, and illustrate the sentence.

*to construct – to draw – to intersect – to join – to label – to lie – to locate – to pass through*

<table>
<thead>
<tr>
<th>Sentence</th>
<th>Geometric figure</th>
</tr>
</thead>
<tbody>
<tr>
<td>The line AB ………………… the point D.</td>
<td></td>
</tr>
<tr>
<td>………………… a line segment AB, ………………… its midpoint and ………………… it I.</td>
<td></td>
</tr>
<tr>
<td>The point D ………………… on <em>(or ………………… on)</em> the line segment AB.</td>
<td></td>
</tr>
<tr>
<td>AB and CD ………………… at F.</td>
<td></td>
</tr>
<tr>
<td>………………… a line that crosses a circle twice. ………………… the intersection points A and B.</td>
<td></td>
</tr>
<tr>
<td>………………… three points A, B, and C. ………………… them in order to ………………… the triangle ABC.</td>
<td></td>
</tr>
</tbody>
</table>

**Activity 3:** In each case, make sentences in order to explain the following words or expressions and draw the figure that illustrates it.

1) *Median; centroid.*
2) *Perpendicular height; orthocenter.*
3) *Angle bisector; incenter; incircle (or inscribed circle).*
4) *Perpendicular bisector; circumcenter; circumcircle (or circumscribed circle).*