PLANTSBROOK SCHOOL

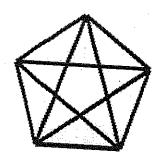
		<i></i> '	LEARNING PLAN	-AN				
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BOB THE BUILDER

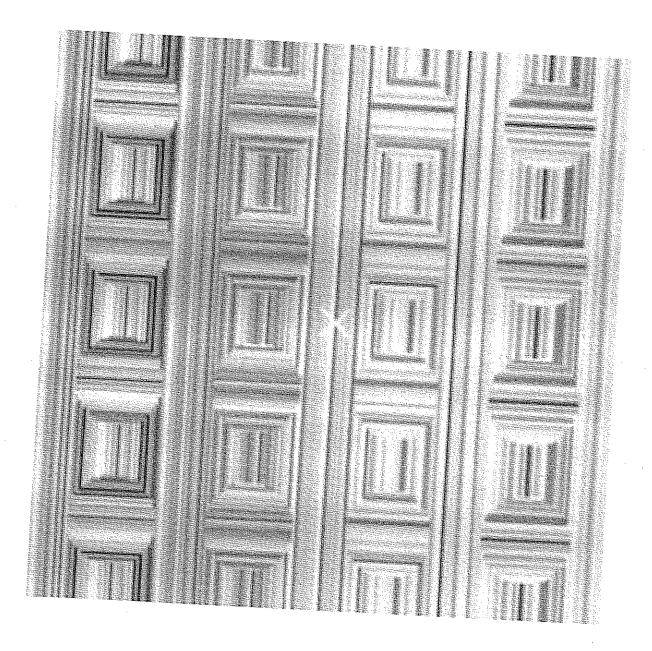
CONSTRUCTION

PROJECT

Take a close look at the following figure... How many triangles can you find?



How many circles can you see?

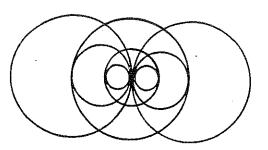


DISCOVER, DISCUSS, DO

This circle pattern is made by drawing circles with a compass.

Which part of the pattern is drawn first? What is drawn next? Discuss.

Draw other interesting circle patterns by using your compass. Have your patterns consist of complete circles.

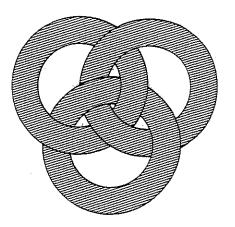


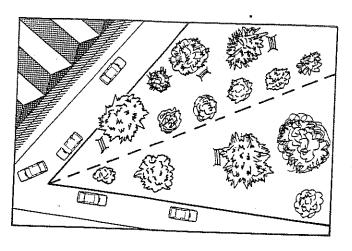
- Choose a circle
- Work out how it is constructed.
- Write a set of instructions that will enable another student to complete the shape.
- Remember they will only have your instructions to follow.
- Now ask your partner to complete the shape!
- How well did they do.....What amendments do you need to make to your instructions?

How is this pattern of interlocking circles made? **Discuss.**

Could you make a similar pattern with four interlocking circles? **Discuss.**

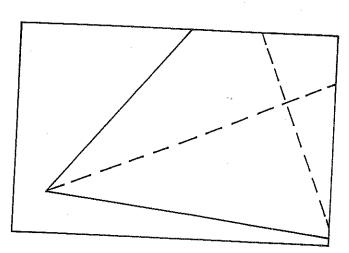
What if the pattern consisted of 5 circles? What if . . .





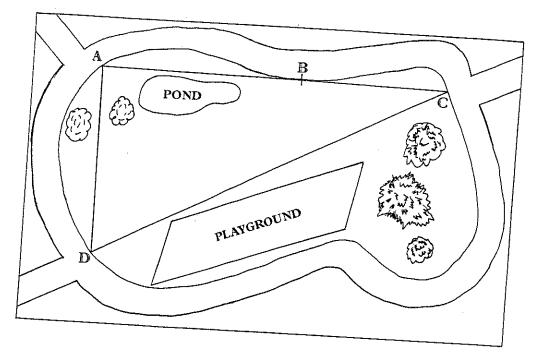
This is a sketch of one corner of Victoria Park. The dotted line represents a path that bisects the angle at this corner. This dotted line could have been drawn on the sketch by using a protractor.

Discuss other ways of placing this dotted line accurately.



Suppose there is another path which is perpendicular to the one in the previous sketch. This other path is shown by the second dotted line.

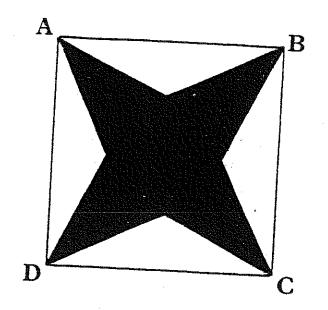
Discuss ways of accurately placing this second dotted line on the sketch.



Three cycle tracks are shown: AD, DC and AC.
There is another cycle track from B to DC. This cycle track is perpendicular to AC.

Use your compass to construct the line of the cycle track which runs from B to DC.

Can you construct this shape using 'Angle Bisection techniques'?



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- What do you notice?
- Using your 'pair of compasses' can you discover a connection between, your observation to the above question and the triangle you have constructed?

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- Bisect each angle
- What do you notice?
- Using your 'pair of compasses' can you discover a connection between, your observation to the above question and the triangle you have constructed?

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