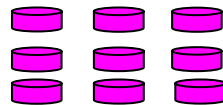


Building patterns 1

Materials: counters, matchsticks

Here are two patterns, one made with matchsticks and the other made with counters. You should choose one to work with and your partner should choose the other.



Now try this with your pattern!

1. Make the next three terms of the pattern.
2. By counting the matches or counters, write down a number sequence that describes your pattern.
3. How many matches or counters will be in the tenth term? Check by making the tenth term.
4. Swap and read each other's answers. What is the same? What is different? Have you both used the same pattern? Discuss your ideas with your partner and write a sentence about what you found.

Adapted from *Access to Algebra Book 1* by Lowe, Johnstone, Kissane and Willis, 1993.