

# Crazy Cubes

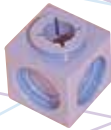
You need  multilink cubes

isometric dot paper

## Activity One

Cecily, a scientist, watched how a crystal grew over a period of 3 hours. She drew these pictures:

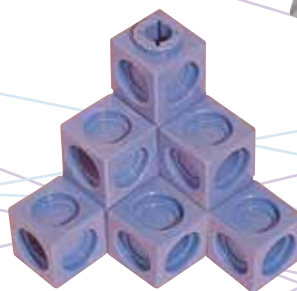
Hour 1



Hour 2



Hour 3

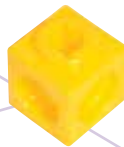


1. Build the crystal pattern with multilink cubes and write down how many new cubes are added each hour.
2. a. Build and draw the crystal for hours 4 and 5.  
b. How many cubes does the crystal have at each of these hours?
3. Write a note for Cecily explaining the pattern you saw.

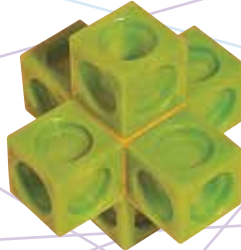
## Activity Two

Here is another growing cube pattern. In each new stage, the cubes in the previous stage are completely covered.

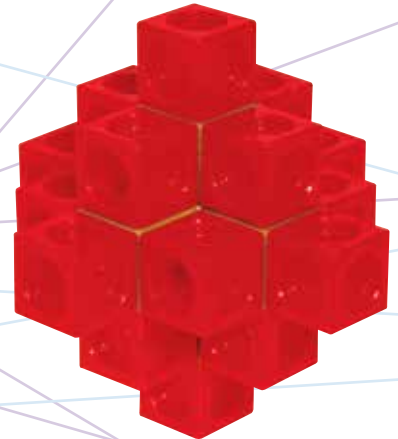
Stage 1



Stage 2



Stage 3



1. Build the model for each stage.
2. How many cubes will the model have at stage 4?