## What is a constellation?



| 8 Next you will make the eyehole. Take the square piece of cardboard (20*20 |
| :---: |
| $\mathrm{cm})$. Draw a cross exactly in the middle of the card. Use the compass to draw |
| a circle with a diameter of 1 centimetre on this cross. Ask your teacher to cut |
| out this circle for you before doing step 9. You can start step 10 while waiting |
| for your teacher. |
| 9 Glue a thin piece of cardboard ( $2 * 20 \mathrm{~cm}$ ) to the long piece of cardboard |
| along line 1. Use scotch tape to attach the square cardboard to this thin |
| piece of cardboard as shown in the drawing below (figure 2). |
| 10 Now you are going to make a three-dimensional model of the constellation Orion |
| on your board. The drawing below (figure 2) shows exactly where each star |
| forming Orion should be. Each star has been given a letter from A to G. Stars A |
| and C, are positioned exactly on a line (lines 2 and 4). Stars D, E, F are located in |
| between lines 4 and 5. Use the pencil to mark the letters A to G on the board |
| using figure 1 and 2 as a guide. |

Figure 2

11 Use the waterproof marker to label each piece of corks with a letter
from $A$ to $G$.
12 Take the 7 wooden skewers and stick one in each of the lettered corks.

13 Take the glow-in-the-dark modelling clay and roll seven small balls about the size
of a pea. Slide one ball onto each skewer. Each ball represents a star.
14 Place the corks over the corresponding letters on the board. Figure 3 shows
how high each ball needs to be on the skewer. Ball A should be very near the top of the skewer. Ball B is also high. Balls C and D should be near the bottom of the skewer. Balls E, F, and G should be almost halfway down the skewer.


15 Look through the eyehole in your cardboard square to see if the stars are in
the correct place. The constellation should look the same as in the drawing.


Figure 3



The Orion constellation


