

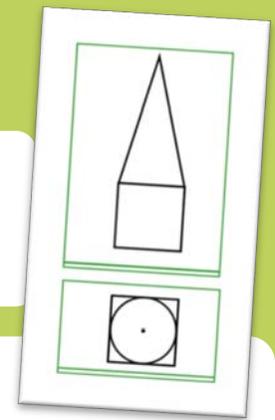


20-25 minutes

CAN YOU 'READ' IT? CAN YOU BUILD IT?



To establish that a diagram represents a real relationship between building blocks
To develop the ability to build structures of three blocks by 'reading' a diagram correctly
To practise relating each element of a diagram to the corresponding block in a structure



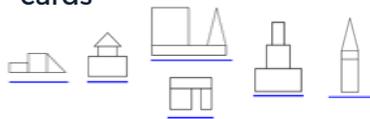
FROM YOUR BLOCK SET

- ❖ For each child - one of each of the following in a basket or box: cube, cuboid, brick, half cube, small prism, large half cube, short board and cone
- ❖ The rest of your block set to hand for the 'Find the Pair' activity

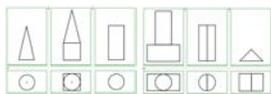


- ❖ Graff the Dog from C34 

- ❖ 6 Front-View Diagram cards



- ❖ 6 pairs of matching cards - front-view and top-view diagrams



Can You Build It? (Building a Structure According to a Front-View Detailed diagram)

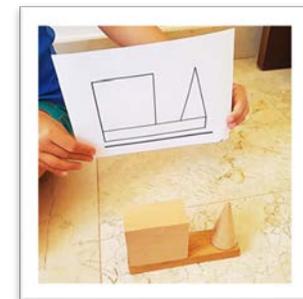
Have Graff the Dog take the pack of six Front-View Diagram cards out and announce that he has some puzzles for your child today! Have him offer your child to choose one card, and then give your child their basket of blocks. Say: *Graff wants to see if you can build the structure that is on the card you picked, by choosing the right blocks from your basket and placing them correctly. Each card shows the 'camera shot', the front, of the structure.*

Then say: *Graff needs to check that you are holding the diagram cards the right way up!* Put on a voice for Graff and say: 'Look at the diagram carefully! Which block is on the bottom? Which block is on the top? That's right, the blue line shows you the bottom, like the flat surface of the table or floor!'

If your child builds the structure 'lying down' then allow them to, but afterwards encourage them to hold up the diagram vertically, as they would see it from a 'camera shot' and create the same structure 'standing up', starting with the block at the bottom of the diagram on the floor and working upwards.

For some cards, there is more than one possibility of blocks that can be used. Have them check their structure by holding up the diagram vertically next to it.

When they have completed the first card, encourage your child to exchange their card for another with Graff, and build another structure. Do as many of the other cards as possible.



CONTINUED ON THE NEXT PAGE



Your child can build three-block structures from a detailed front-view diagram.
Your child can match top-view diagrams to corresponding front-view diagrams.



KEY TO LEARNING
@HOME



CAN YOU 'READ' IT? CAN YOU BUILD IT? – continued

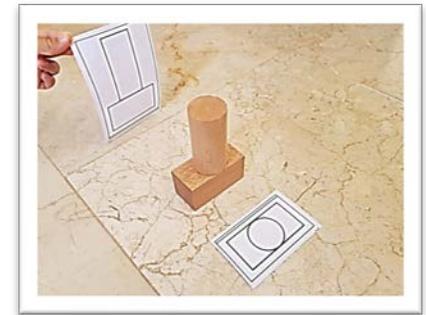
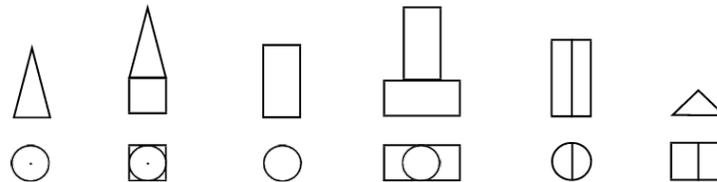


Find the Pair (Matching the Front-View to the Top-View)

Give your child free access to the full set of blocks for this, and let them choose what they need independently where possible. Have Graff announce that he has another, perhaps trickier challenge, and have him give your child the six pairs of front-view and top-view cards all jumbled up. Point out that the larger cards show the front-view/camera shot of a block or structure, and that the smaller cards show the top-view/bird's eye view of one of those same blocks or structures. Have Graff ask them to match the pairs of cards.

Let your child start independently and observe their process. For any that they struggle with, ask them to select the block(s) that they think the diagrams represent and try to match them, and if they don't match, model looking for an alternative block that looks the same from the top view or from the front view. Encourage them to take a 'camera shot' as necessary and to 'fly over the top to get the bird's eye view to check their choices.

In the end, they should have all pairs matched and the corresponding block(s) in place for each pair of cards.



Have Graff congratulate your child on tackling all his challenges with such enthusiasm, and for not giving up when he made them a bit tricky.

