Teacher notes

Children will select a scenario card and complete the block diagram using cubes to represent this data.
They will answer the questions about the diagram which includes labelling the title and axes.
They may progress to creating and answering their own questions about their block diagrams.

Alternatively, children can draw their block diagrams in their books.

Extension – Children could represent their results in a tally chart and pictogram.

DEVELOPING ★ ☆ ☆

Children will work in partners.
Children may only complete yellow question cards.

SECURE ★ ★ ☆

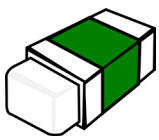
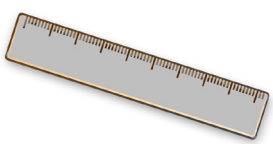
Children will answer the question cards and create their own questions for their partner to solve.

MASTERY ★ ★ ★

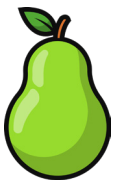
Children will answer the question cards and create their own questions for their partner to solve. They will progress to representing this data on a tally chart and pictogram.

Example:

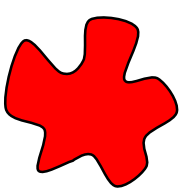
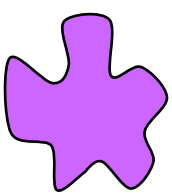
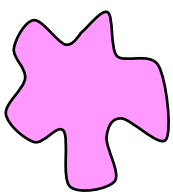
Items

10				
9				
8				
7				
6				
5				
4				
3				
2				
1				
	 Pencil	 Rubber	 Ruler	 Scissors

Fruit

10					
9					
8					
7					
6					
5					
4					
3					
2					
1					
	 Apple	 Banana	 Grapes	 Orange	 Pear

Favorite colour

10						
9						
8						
7						
6						
5						
4						
3						
2						
1						
	 Red	 Blue	 Green	 Yellow	 Purple	 Pink

Extended graph - Items

20				
19				
18				
17				
16				
15				
14				
13				
12				
11				

Extended graph - Fruit

20					
19					
18					
17					
16					
15					
14					
13					
12					
11					

Extended graph - Favorite colour

20						
19						
18						
17						
16						
15						
14						
13						
12						
11						

Scenario cards

Choose a scenario below and represent the data on a block diagram.

Year 2 are counting items on each table. Here are the results:

Item	Number of item
Pencil	8
Rubber	3
Ruler	4
Scissors	5

1. What will the title / axes be?
2. Which is the most common?
3. Which is the least common?

Create your own questions for a partner to solve.

Year 3 collected data about their favourite fruit. Here are the results:

Fruit	Number of votes
Apple	5
Banana	3
Grapes	9
Orange	7
Pear	2

1. What will the title / axes be?
2. Which is the most popular?
3. Which is the least popular?

Create your own questions for a partner to solve.

A group of children investigated favourite colours. Here are the results:

Colour	Number of votes
Red	10
Blue	8
Green	1
Yellow	7
Purple	6
Pink	4

1. What will the title / axes be?
2. Which is the most popular?
3. Which is the least popular?

Create your own questions for a partner to solve.

Choose a scenario. Gather the results from your class and show it on a block diagram.

1) Favourite colour.
2) Eye colour.
3) Method of transport to school.
4) Favourite sport.
5) Favourite colour.

1. What will the title / axes be?
2. Which is the most common?
3. Which is the least common?

Create your own questions for a partner to solve.

Questions

How many voted for each option?	What was the most popular? How many votes?	What was the least popular? How many votes?
How many people voted in total?	What was the difference in votes between the most popular and least popular?	Can you represent this data in a tally chart and pictogram?

Create your own questions for a partner to solve.

Question	Answer

Template

Extended graph - Template
