Varied Fluency Step 1: Pictograms

National Curriculum Objectives:

Mathematics Year 3: (3S1) <u>Interpret and present data using bar charts, pictograms and tables</u> Mathematics Year 3: (3S2) <u>Solve one-step and two-step questions [for example, 'How</u>

many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables

Differentiation:

Developing Questions to support reading and interpreting of pictograms, using 1:1, 1:2 and 1:10 correspondence. No half pictures.

Expected Questions to support reading and interpreting of pictograms, using 1:1, 1:2, 1:5 and 1:10 correspondence. Each image represents the same within one graph, including half pictures.

Greater Depth Questions to support reading and interpreting of pictograms, using 1:1, 1:2, 1:3, 1:5 and 1:10 correspondence. Different values represented within one graph, including half pictures.

More <u>Year 3 and Year 4 Statistics</u> resources.

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Varied Fluency – Pictograms – Teaching Information

Pictograms Pictograms 1a. Complete the missing sections using 1b. Complete the missing sections using the information below. the information below. Number of Children Month Sandwich Number of Children Cheese January ŤŤŤ February Ham March Tuna ŤŤŤŤŤŤ April Jam Chocolate May Key: 🛉 = 1 child Key: () = 2 children A. 4 children have their birthday in A. 12 children like tung sandwiches. January. B. 4 more children like jam sandwiches B. 2 more children have their birthday in than tuna. March than February. C. 8 fewer children like chocolate spread C. 3 fewer children have their birthday in sandwiches than cheese. May than April. YP. 3 VF 3 VF 2a. Answer the questions about Year 3's 2b. Answer the questions about favourite favourite sport. breakfast. Sport Number of Children **Breakfast** Number of Children \odot \odot Football Cereal \bigcirc Tennis Toast Rugby Croissant Cricket Eggs (H) Porridge Netball Key: 1 picture = 2 children Key: () = 10 children A. How many children like netball? A. How many children like porridge? B. How many children like cricket and B. How many children like eggs and rugby? toast? C. How many more children like football C. How many fewer children like than tennis? croissants than cereal? D. How many children voted for their D. How many children voted for their favourite breakfast? favourite sport?

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3 VF

3 VF



Varied Fluency – Pictograms – Year 3 Developing

| 3a. Complete the missing sections using the information below. | | 3b. Complete the missing sections using the information below. | |
|--|-------------------------------|--|-------------------------|
| Transport | Number of Children | Club | Number of Children |
| Walk | | Karate | * * * * * * * |
| Bike | ₫\$0 | Art | |
| Car | 추축축축축축 | Singing | Ť Ť Ť |
| Bus | | Puzzles | |
| Taxi | | Sewing | |
| Key: 1 picture = 5 children | | Key: 🛉 = 10 children | |
| A. 5 fewer children walk to school than come by car. B. Half as many children cycle to school than come by bus. C. Four times as many children come by taxi as cycle to school. | | A. 5 more children go to art club than singing club. B. Twice as many children go to puzzles club than art club. C. Half as many children go to sewing club as puzzles club. | |
| 3 VF | | | 3 VF |
| 4a. Answer the questions about the number of pieces of fruit sold. | | 4b. Answer the questions about the number of cupcakes sold in a cafe. | |
| Fruit | Number of Pieces of Fruit | Cupcake | Number of Cupcakes Sold |
| Cherries | 3. 3. | Carrot | |
| Apple | ది ది ది ది ది ది | Lemon | |
| Orange | | Chocolate | |
| Pear | $\delta \delta \delta \delta$ | Vanilla | |
| Watermelor | | Red Velvet | |
| Key: 1 picture = 2 pieces of fruit | | Key: 🎡 = 5 cupcakes | |
| A. How many apples were sold? B. How many more oranges were sold than cherries? C. How many pieces of fruit were sold in total? D. How many fewer pears were sold than watermelons? | | A. How many chocolate cupcakes were sold? B. How many fewer carrot cupcakes were sold than red velvet cupcakes? C. How many cupcakes were sold in total? D. How many more lemon cupcakes were sold than vanilla cupcakes? | |
| $\mathbf{\mathcal{W}}$ | 3 VF | LY . | 3 VF |

Pictograms

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Varied Fluency – Pictograms – Year 3 Expected

Pictograms

Pictograms



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Varied Fluency – Pictograms – Year 3 Greater Depth

Varied Fluency Pictograms

Developing

1a. A. 4 pictures for January; B. 5 pictures for March; C. 3 pictures for May
2a. A. 8; B. 10; C. 10; D. 32

Expected

3a. A. 6 pictures for walking; B. 2 pictures for a bus; C. 4 pictures for a taxi 4a. A. 11; B. 6; C. 48; D. 7

Greater Depth

5a. A. 7.5 pictures for scooter; B. 5 pictures for skateboard; C. 2.5 pictures for rollerskates 6a. A. 15; B. 4; C. 99; D. 41

Varied Fluency Pictograms

Developing

1b. A. 6 pictures for tuna; B. 8 pictures for jam; C. 5 pictures for chocolate 2b. A. 20; B. 90; C. 50; D. 180

Expected

3b. A. 3.5 pictures for art club; B. 7 pictures for puzzles club; C. 3.5 pictures for sewing club 4b. A. 30; B. 10; C. 130; D. 20

Greater Depth

5b. A. 0.5 pictures for flip flops; B. 1 picture for sandals; C. 3.5 pictures for trainers 6b. A. 35; B. 22; C. 94; D. 6

