**Unit 1 Numbers and Counting**

**IA Counting objects: Discover** – Mark correct if correct number of squares is coloured in and numbers written correctly.

**IA Counting objects: Explore** – Mark correct so long as number of objects is correct.

Tick should be against box with 16 objects and cross should be against box with 3 objects.

**IB Counting rhymes and actions: Discover** – Mark correct if each box contains correct number of ducks.

**IB Counting rhymes and actions: Explore**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6 + 5</td>
<td>11</td>
</tr>
<tr>
<td>5 + 6</td>
<td>11</td>
</tr>
<tr>
<td>2 + 7</td>
<td>9</td>
</tr>
<tr>
<td>7 + 2</td>
<td>9</td>
</tr>
<tr>
<td>8 + 5</td>
<td>13</td>
</tr>
</tbody>
</table>

**IC Reading and writing numbers: Discover** – Mark correct if correct number of objects is drawn.

**IC Reading and writing numbers: Explore** – Lily pads should be completed in order 1–20.

**I Review**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>five</td>
<td>5</td>
</tr>
<tr>
<td>sixteen</td>
<td>16</td>
</tr>
<tr>
<td>seven</td>
<td>7</td>
</tr>
<tr>
<td>three</td>
<td>3</td>
</tr>
<tr>
<td>two</td>
<td>2</td>
</tr>
<tr>
<td>twelve</td>
<td>12</td>
</tr>
<tr>
<td>nineteen</td>
<td>19</td>
</tr>
<tr>
<td>nineteen</td>
<td>19</td>
</tr>
<tr>
<td>one</td>
<td>1</td>
</tr>
<tr>
<td>four</td>
<td>4</td>
</tr>
<tr>
<td>fourteen</td>
<td>14</td>
</tr>
<tr>
<td>twenty</td>
<td>20</td>
</tr>
</tbody>
</table>

**Unit 2 Exploring Numbers**

**2A More and less: Discover**

1. 5 is 4 less than 9.
2. 11 is 2 more than 9.
3. 13 is 5 more than 8.
4. 3 is 3 less than 6.
5. 7 is 6 more than 1.
6. 12 is 3 less than 15.
7. 8 is 3 less than 11.
8. 15 is 6 more than 9.

**2B Between: Discover** – Mark correct if any number is chosen between the two end numbers.

**2B Between: Explore** – Mark correct if number lines contain consecutive numbers.

**2C Tens and ones: Discover**

<table>
<thead>
<tr>
<th>Number</th>
<th>Tens</th>
<th>Ones</th>
</tr>
</thead>
<tbody>
<tr>
<td>35</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>24</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>52</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>29</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>41</td>
<td>4</td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>1</td>
<td>9</td>
</tr>
<tr>
<td>33</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>11</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>46</td>
<td>4</td>
<td>6</td>
</tr>
</tbody>
</table>
2C Tens and ones: Explore

<table>
<thead>
<tr>
<th>Tens</th>
<th>Ones</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>3</td>
<td>53</td>
</tr>
<tr>
<td>2</td>
<td>7</td>
<td>27</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>44</td>
</tr>
<tr>
<td>1</td>
<td>8</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>6</td>
<td>36</td>
</tr>
<tr>
<td>4</td>
<td>0</td>
<td>40</td>
</tr>
</tbody>
</table>

40 + 6 = 46
20 + 1 = 21
30 + 5 = 35
10 + 8 = 18
20 + 2 = 22
30 + 5 = 35

2D Ordering numbers: Discover

1. The caravan is the 9th vehicle.
2. The motorbike is the 7th vehicle.
3. The car is the 8th vehicle.
4. The coach is the 5th vehicle.
5. The digger is the 6th vehicle.

2D Ordering numbers: Explore

1. The caravan is the 9th vehicle.
2. The motorbike is the 7th vehicle.
3. The car is the 8th vehicle.
4. The coach is the 5th vehicle.
5. The digger is the 6th vehicle.

2 Review

Bowl 1 contains 12 cherries.
Bowl 2 contains 17 cherries.
There are more cherries in bowl 2.
There are fewer cherries in bowl 1.
There are 5 more cherries in bowl 2 than in bowl 1.
Accept any two correct sentences which match the number of cherries in each bowl in the drawing.

Unit 3 Number Pairs

3A Number pairs for 6, 7, 8, 9: Discover

0 + 6 = 6
1 + 5 = 6
2 + 4 = 6
3 + 3 = 6
4 + 2 = 6
5 + 1 = 6
6 + 0 = 6
0 + 8 = 8
1 + 7 = 8
2 + 6 = 8
3 + 5 = 8
4 + 4 = 8
5 + 3 = 8
6 + 2 = 8
7 + 1 = 8
8 + 0 = 8

3A Number pairs for 6, 7, 8, 9: Explore

0 + 7 = 7
1 + 6 = 7
2 + 5 = 7
3 + 4 = 7
4 + 3 = 7
5 + 2 = 7
3B Number pairs for 10: Discover
4 + 6 = 10
7 + 3 = 10
1 + 9 = 10
10 + 0 = 10
5 + 5 = 10
8 + 2 = 10
6 + 4 = 10
0 + 10 = 10

Mark correct any image with a correct matching number sentence. Four pairs, images and sentences are required.

3B Number pairs for 10: Explore
Mark correct any domino which shows a number pair for 10 with the correct number sentence underneath.

3 Review – Mark correct all number sentences which are correct.

Unit 4 Addition
4A Combining sets: Discover – Accept any correct number sentence where each of the three numbers added is less than or equal to 6. Eight number sentences are required.

4A Combining sets: Explore
1. I know that 5 + 7 = 12 so 7 + 5 = 12
2. I know that 1 + 9 = 10 so 1 + 9 = 10
3. I know that 8 + 6 = 14 so 6 + 8 = 14
4. I know that 3 + 8 = 11 so 8 + 3 = 11

5. I know that 5 + 9 = 14 so 9 + 5 = 14
6. I know that 11 + 1 = 12 so 11 + 1 = 12

Mark correct any accurate number sentence for questions 1 to 4.

4B Counting on: Discover – Mark all accurate number sentences correct where each number to be added is less than or equal to 6.

4B Counting on: Explore
1. 7 + 3 + 4 = 14
2. 8 + 2 + 5 = 15
3. 5 + 5 + 8 = 18
4. 6 + 4 + 6 = 16
5. 9 + 1 + 8 = 18
(Note the order of numbers does not matter.)

Two more examples are made up by the student. Mark correct any accurate number sentence.

4 Review – Mark any accurate number sentences correct where the total is 10, 5 or 20. There should be 4 of each.

Unit 5 Subtraction and Difference

5A Taking away: Discover
1. 4 less than 9 is 5.
2. 2 less than 7 is 5.
3. 5 less than 9 is 4.
4. 1 less than 8 is 7.
5. 4 less than 6 is 2.
6. 5 less than 10 is 5.
(Note – the arrows on the number lines should be correct.)

5A Taking away: Explore
Mark all accurate number sentences and number lines correct. Each number which is subtracted has to be less than or equal to 6. Arrows need to be correct. There are 6 examples.

5B Counting back: Discover – Mark all accurate number sentences correct. There are 12 questions.

5B Counting back: Explore
1. 5 + 3 = 8 so 3 + 5 = 8 and 8 – 3 = 5 and 8 – 5 = 3
2. $2 + 7 = 9$ so $7 + 2 = 9$ and $9 - 2 = 7$
   and $9 - 7 = 2$
3. $1 + 5 = 6$ so $5 + 1 = 6$ and $6 - 1 = 5$ and
   $6 - 5 = 1$
4. $3 + 8 = 11$ so $8 + 3 = 11$ and $11 - 3 = 8$ and
   $11 - 8 = 3$
5. $6 + 4 = 10$ so $4 + 6 = 10$ and $10 - 4 = 6$
   and $10 - 6 = 4$
6. $8 + 5 = 13$ so $5 + 8 = 13$ and $13 - 5 = 8$
   and $13 - 8 = 5$

5C Finding the difference: Discover – Mark all accurate number sentences and number lines correct. Numbers used must be less than or equal to 9.

5C Finding the difference: Explore

<table>
<thead>
<tr>
<th></th>
<th>2</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>2</td>
<td>6</td>
</tr>
<tr>
<td>20</td>
<td>12</td>
<td>14</td>
</tr>
</tbody>
</table>

5 Review
Accept all accurate sentences. Encourage students to use the following vocabulary:
- There are more
- There are fewer
- Altogether
- The difference between.
- There are 3 questions.

Unit 6 Number Patterns

6A Even and odd: Discover – Accept all correct answers. The first 10 numbers must be even and the second 10 numbers must be odd.

6A Even and odd: Explore – Accept all correct answers. Numbers added must be less than or equal to 6 and the total needs to be identified as odd or even.

6B Doubles and halves: Discover
Double 9 is 18.
Double 8 is 16.
Double 2 is 4.

6B Doubles and halves: Explore
1. Half of 6 is 3.
2. Half of 4 is 2.
3. Half of 2 is 1.
4. Half of 10 is 5.
1. Double 5 is 10.
2. Double 3 is 6.
3. Double 1 is 2.
4. Double 4 is 8.
5. Double 2 is 4.

6C Near doubles: Discover – Accept all correct answers which include at least one double in the numbers to be added. Questions 7–10 include a number which is subtracted.

6C Near doubles: Explore – Accept all correct answers. Note the original numbers come from a roll of two dice. There are 6 examples.

6 Review

<table>
<thead>
<tr>
<th>Even</th>
<th>Odd</th>
<th>Double</th>
<th>Double + 1</th>
<th>Double – 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>7 x</td>
<td>✓</td>
<td>14</td>
<td>15</td>
<td>13</td>
</tr>
<tr>
<td>4 ✓</td>
<td>x</td>
<td>8</td>
<td>9</td>
<td>7</td>
</tr>
<tr>
<td>11 x</td>
<td>✓</td>
<td>22</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>13 x</td>
<td>✓</td>
<td>26</td>
<td>27</td>
<td>25</td>
</tr>
<tr>
<td>2 ✓</td>
<td>x</td>
<td>4</td>
<td>5</td>
<td>3</td>
</tr>
<tr>
<td>18 ✓</td>
<td>x</td>
<td>36</td>
<td>37</td>
<td>35</td>
</tr>
<tr>
<td>9 x</td>
<td>✓</td>
<td>18</td>
<td>19</td>
<td>17</td>
</tr>
<tr>
<td>14 ✓</td>
<td>x</td>
<td>28</td>
<td>29</td>
<td>27</td>
</tr>
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<td>16 ✓</td>
<td>x</td>
<td>32</td>
<td>33</td>
<td>31</td>
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<tr>
<td>20 ✓</td>
<td>x</td>
<td>40</td>
<td>41</td>
<td>39</td>
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<tr>
<td>1 x</td>
<td>✓</td>
<td>2</td>
<td>3</td>
<td>1</td>
</tr>
<tr>
<td>12 ✓</td>
<td>x</td>
<td>24</td>
<td>25</td>
<td>23</td>
</tr>
</tbody>
</table>

Unit 7 Counting and Estimating

7A Number lines: Discover
1. I landed on 2, 5, 8, 11, 14, 17, 20, 23.
2. I landed on 1, 6, 11, 16, 21.
3. I landed on 18, 16, 14, 12, 10, 8, 6, 4, 2, 0.
4. I landed on 1, 4, 7, 10, 13, 16, 19, 22, 25.
5. I landed on 2, 6, 10, 14, 18, 22.

7A Number lines: Explore

<table>
<thead>
<tr>
<th>2 less</th>
<th>Number</th>
<th>2 more</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>3</td>
<td>5</td>
</tr>
<tr>
<td>15</td>
<td>17</td>
<td>19</td>
</tr>
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<td>15</td>
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<td>18</td>
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<td>22</td>
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<td>11</td>
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<tr>
<td>6</td>
<td>8</td>
<td>10</td>
</tr>
<tr>
<td>4</td>
<td>6</td>
<td>8</td>
</tr>
<tr>
<td>14</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>3</td>
<td>5</td>
<td>7</td>
</tr>
<tr>
<td>13</td>
<td>15</td>
<td>17</td>
</tr>
<tr>
<td>17</td>
<td>19</td>
<td>21</td>
</tr>
<tr>
<td>0</td>
<td>2</td>
<td>4</td>
</tr>
</tbody>
</table>

7B More or less: Discover

<table>
<thead>
<tr>
<th>10 less</th>
<th>Number</th>
<th>10 more</th>
</tr>
</thead>
<tbody>
<tr>
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<td>24</td>
<td>34</td>
</tr>
<tr>
<td>37</td>
<td>47</td>
<td>57</td>
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<td>9</td>
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</tr>
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<td>78</td>
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<td>80</td>
<td>90</td>
<td>100</td>
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<td>35</td>
<td>45</td>
<td>55</td>
</tr>
<tr>
<td>61</td>
<td>71</td>
<td>81</td>
</tr>
<tr>
<td>18</td>
<td>28</td>
<td>38</td>
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<td>26</td>
<td>36</td>
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<td>71</td>
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<td>66</td>
<td>76</td>
<td>86</td>
</tr>
<tr>
<td>4</td>
<td>14</td>
<td>24</td>
</tr>
</tbody>
</table>

7B More or less: Explore – Mark all accurate number chains correct. Note the original numbers come from the roll of 2 dice. There are 5 examples.

7C Missing numbers: Discover
1. 15 is 2 more than 13
2. 38 is 10 more than 28
3. 17 is 1 less than 18
4. 19 is 1 more than 18
5. 4 is 10 less than 14
6. 24 is 2 less than 26

7. 22 is 2 more than 20
8. 9 is 10 less than 19
1. 6 + 4 = 10
2. 3 + 6 = 9
3. 16 – 7 = 9
4. 1 + 4 = 5
5. 12 – 2 = 10

7C Missing numbers: Explore – Mark all accurate number sentences correct.

7D Money: Discover – Mark all accurate number sentences correct.

7D Money: Explore – Currency must be specified. Mark all accurate number sentences correct. There must be 3 ways of making each of the amounts.

7E Estimating: Discover – Mark correct if table has been filled in correctly.

7E Estimating: Explore – Mark correct if table has been filled in correctly.

7 Review – Mark all accurate sentences correct. The student must use the correct vocabulary as shown and obtain the totals specified.

Unit 8 Multiplication and Division

8A Sharing: Discover

<table>
<thead>
<tr>
<th>Objects</th>
<th>2 friends</th>
<th>3 friends</th>
<th>4 friends</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 model cars</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
</tr>
<tr>
<td>12 cakes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>3 sweets</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>9 balloons</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>5 bananas</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>10 eggs</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

8A Sharing: Explore
1. 3 cakes each
2. 2 sweets each
3. 3 balloons each
4. 4 toy cars each
5. 5 eggs each
8B Grouping: Discover
1. We have 7 cookies each.
2. We have 8 boxes of juice each.
3. We have 4 buttons each.
4. We have 9 bananas each.
5. We have 6 eggs each.
6. We have 5 buses each.

8B Grouping: Explore
1. There are 8 eyes. $4 \times 2 = 8$
2. There are 10 legs. $5 \times 2 = 10$
3. There are 12 legs. $6 \times 2 = 12$
4. There are 6 wings. $3 \times 2 = 6$
5. There are 14 socks. $7 \times 2 = 14$
6. There are 4 wings. $2 \times 2 = 4$

8 Review
1. 36
2. 9
3. 12
4. 6
5. 4
6. 18

Unit 9 Measures
9A Length and weight: Discover – Mark all reasonable answers correct.
9A Length and weight: Explore – Mark all reasonable answers correct.
9B Estimating capacity: Discover – Mark all reasonable answers correct.
9B Estimating capacity: Explore – Mark all reasonable answers correct.
9C Comparing and describing: Discover – Mark all reasonable answers correct.
9C Comparing and describing: Explore – Mark all reasonable answers correct.

9 Review
1. Time 1, 4, 3, 2
2. Length 2, 1, 3, 4
3. Mass 3, 1, 4, 2
4. Capacity 4, 2, 1, 3

Unit 10 Shapes
10A 2D shapes: Discover – Mark all reasonable answers correct.
10A 2D shapes: Explore – Mark all reasonable answers correct.
10B 3D shapes: Discover – Mark all reasonable answers correct.
10B 3D shapes: Explore – Mark all reasonable answers correct.
10C Symmetry: Discover and Explore – Mark all reasonable answers correct.
10D Position and movement: Discover and Explore – Mark all reasonable answers correct.
10 Review – Mark all reasonable answers correct.

Unit 11 Time
11A Ordering events: Discover and Explore – Mark all reasonable answers correct.
11B Days of the week: Discover and Explore – Mark all reasonable answers correct.
11C Telling the time: Discover and Explore – Mark all reasonable answers correct.
11 Review – Mark all reasonable answers correct.

Unit 12 Handling Data
12A Block graphs: Discover and Explore – Mark all reasonable answers correct.
12B Pictograms, lists and tables: Discover and Explore – Mark all reasonable answers correct.
I2C Venn diagrams: Discover and Explore

I2D Carroll diagrams: Discover and Explore

1.

<table>
<thead>
<tr>
<th></th>
<th>Less than 10</th>
<th>Not less than 10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Even numbers</td>
<td>2, 4, 6, 8</td>
<td>10, 12, 14, 16, 18, 20</td>
</tr>
<tr>
<td>Not even numbers</td>
<td>1, 3, 5, 7, 9</td>
<td>11, 13, 15, 17, 19</td>
</tr>
</tbody>
</table>

2.

<table>
<thead>
<tr>
<th></th>
<th>Fewer than five sides</th>
<th>Not fewer than five sides</th>
</tr>
</thead>
<tbody>
<tr>
<td>All sides straight</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Not all sides straight</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12 Review – Mark all reasonable statements correct.