



INTEGRATED ACTIVITY (20 – 60 MINUTES)

In order to promote relevant discussion, the following questions are posed by the educator to the learners:

- **How far can you count before you run out of numbers?**
- **Is there a beginning and end to the number line?**
- **Did you know that all numbers are related to each other?**


A short discussion takes place about the never-ending number line and the various patterns that numbers create with each other.


Today we are going to explore patterns on a number grid. You will need to work closely with the class teacher in order to make sure you are using the correct terminology and aiming the lesson at the right level. You might like to type up a worksheet for the students to follow.


Task: Create number patterns on a number grid


1. Double click on the **Computers 4 Kids** icon on your desktop and click on the relevant **volume number** and **lesson number**.
2. Click on the template hyperlink under the Template Linx heading.
3. The opened template will look like this:
4. Can you name the shapes on the left of the screen?
5. Put a **circle** around all the numbers which are **multiples** of **2**.
6. Click on the circle. The circle will appear on your screen next to the hundred square.
7. Place your cursor over the circle shape. Your cursor will change into a white hand.


















Hundred Square

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Use the hundred square to find number patterns.





8. Click and hold the left mouse button down and drag the circle to where you wish to position it on the hundred square.
9. Continue adding circles to complete all the multiples of 2 on the hundred square in a similar way.
10. (Note to the educator: the instructions can be adapted according to the numeracy needs of the class at the time)
11. What do you notice about the end of these numbers (the last digit)? (they all end in 2, 4, 6, 8 or 0)
12. Now put a pentagon around all the numbers which are multiples of 3.
13. Can you see the pattern you are making on the chart? What does it look like? (diagonal lines)
14. Are there any numbers which are both multiples of 2 and 3? Would you be able to complete the chart without counting just by studying the patterns?
15. Create other number patterns using the other 2 shapes available.
16. Note to the educator: Have races where learners complete a number pattern within a certain amount of time
17. If you make a mistake at any stage you can delete the item by dragging and dropping the item into the bin.
18. If you wish to delete all the items you have placed on your screen and start the screen from scratch, press the refresh button on your browser or F5 on your keyboard. This will reload the screen.
19. Now use the text tool to enter your name and grade. Click on the text tool (a pencil).
20. Wording will pop up which says "Enter your text here". Delete this text by using the ← backspace key or highlighting the text and pressing the delete key.
21. Enter your own text. Move your cursor over the text and when it changes to a little white hand you may drag and drop the text anywhere on your picture.
22. To print your hundred square → file → print



23. To exit the screen: Click on the X in the top right hand corner of the screen or click on File → Close

*Note to the educator: If you **close** this Flash screen **without printing** at this point, you will lose your work. To save an image of your work you can take a screen capture of your completed work by pressing the **Print Screen** key on your keyboard. This will copy an image (like taking a photograph) of your completed work to the clipboard (of the computer). Open **MS Word** and click on the **paste icon** on the toolbar. Your screen capture image of your completed work will appear on your page. Save this document to your digital portfolio and print it out at your convenience. Screen captures are like photographs – they are flattened images and no further editing of the screen in its original context will be possible.*

