

ACTIVITY-4

PLAYING WITH NUMBERS

PRIME AND COMPOSITE NUMBERS

1. What we have to do?

To list out Prime and Composite Numbers by activity method.

2. What is required?

Number board and colours.

3. How much time required for this activity?

30-40 minutes.

4. What do you need to know?

Concept of Multiples.

5. How will you proceed?

- Take a number board with natural numbers from 1 to 100.
- Cross out 1 because it is neither a prime nor a composite number. Colour it yellow.
- Encircle 2 and colour it red.
- Now, cross all the multiples of 2, other than 2 itself and colour them green.
- Encircle 3 and colour it red.
- Now, cross all the multiples of 3, other than 3 itself and colour them green.
- Number 4 is already crossed. So, move on to 5. Encircle it and colour it red.
- Now, cross out all the multiples of 5, other than 5 itself and colour them green.
- Continue this process until all the numbers are either encircled or crossed out.

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

6. **What have you observed?**

- List out the numbers which are coloured red.
- List out the numbers which are coloured green.

7. **What have you learnt?**

8. **What you have to do as extended activity?**

- The prime numbers 13 and 31 are formed by the same digits 1 and 3. Find such pairs of prime numbers and composite numbers up to 100.

9. **Real Life Application:**

Prime and Composite Numbers are used by the computers to create special Encryption codes to recognize a person's credit card.