

# Lesson Plan

Grade: Four

Subject: Maths

Term: 1st

Time: 40min

Teacher's Name: \_\_\_\_\_

Week : 6

Day: 1

Unit 1: Whole Number and Operations

Topic name: Patterns

## Student Learning Outcomes:

- Recognize a given increasing and decreasing pattern by stating a pattern rule.

## Resource Material:

Chalk/Marker, White/Blackboard, Maths Textbook

## Warm-up Activities:

5min

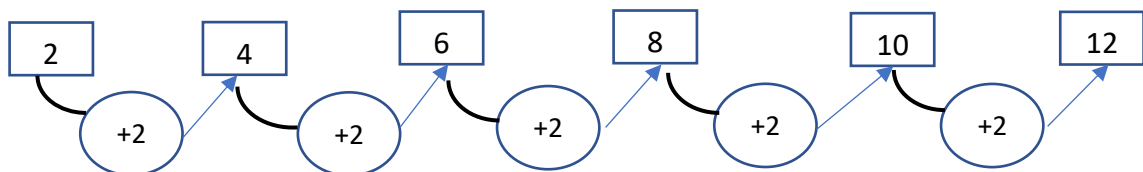
Before beginning the lesson, ask students to say "Tasmiyah".

Ask students: Do you know what is a number pattern? Take their responses and tell them that today we are going to learn about number patterns.

## Teaching and Learning Activities:

20min

- Tell the number pattern is a sequence of numbers that increases, decreases or repeats by following a specific rule.
- Tell them that in previous classes we learnt about colours, shapes, symbols, etc. patterns.
- Have students open page 23 of their textbooks. Read the statement of the given example. There is a number pattern with some missing numbers. Instruct them to observe the numbers in the given number sequence. There is a specific rule in these numbers. Tell them that when we add 2 to 2, we get 4 and when we add 2 to 4, we get 6. Tell them that numbers are increasing in a pattern as there is an increase of 2 in each number. So we get the next terms of the pattern by adding 2 in these terms. The rule of this pattern is adding 2.
- In these patterns, there are specific rules and patterns.



Review:

3min

Sum up the lesson by explaining the number patterns are of two kinds:

- Increasing number pattern.
- Decreasing number pattern.

Evaluation:

10min

To check their understanding asks them: What is a pattern? How do you find the next term in an increasing pattern? Appreciate them for their correct answers.

Homework:

2min

Solve Q1 of exercise 1.8.

# Lesson Plan

Grade: Four

Subject: Maths

Term: 1st

Time: 40min

Teacher's Name: \_\_\_\_\_

Week : 6

Day: 2

Unit 1: Whole Number and Operations

Topic : Number Patterns

## Student Learning Outcomes:

- Recognize a given increasing and decreasing pattern by stating a pattern rule.

## Resource Material:

Chalk/Marker, White/Blackboard, Maths Textbook

## Warm-up Activities:

5min

Before beginning the lesson, ask students to say "Tasmiyah".

Ask students to write the following patterns on the board.

a) 13, 16, 19, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

b) 16, 21, 26, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Ask them to complete these patterns in their notebooks. When they are done, call them randomly and ask about the rules of these patterns. Take their responses and appreciate them for their effort.

## Teaching and learning Activities:

20min

- Read the statement of the example 2 (2, 5, 8, 11, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_) on page 24 of their textbooks.
- In this pattern we can see an increase of 3 in each next term.
- So here the next terms will be 14,17,20.
- Now ask them to see example 3, here the pattern (88,80,72,64 \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_) is decreasing pattern we can decrease of 8 in each next term.
- Here the next three terms will be 56,48,40.

## Review:

3min

Recall the lesson by explaining the "Point to Remember".

## Evaluation:

10min

To check their understanding, ask them to solve Q 2 (i)(ii) of Exercise 1.8. Roam round the class, check their work and guide them if required.

## Homework:

2min

Solve 2 (iii – iv) in their notebooks.

# Lesson Plan

Grade: Four

Subject: Maths

Term: 1st

Time: 40min

Teacher's Name: \_\_\_\_\_

Week : 6

Day: 3

Unit 1: Whole Number and Operations

Topic : Number Patterns

## Student Learning Outcomes:

- Complete the given increasing and decreasing number sequence.

## Resource Material:

Chalk/Marker, White/Blackboard, Maths Textbook, Rule cards, Worksheet

## Warm-up Activities:

5min

Before beginning the lesson, ask students to say "Tasmiyah".

Ask students: How are you? Encourage them to say, "Alhamdulillah".

Ask students about their homework. Ask them: What is an increasing pattern?

What is a decreasing pattern?

Take their responses and appreciate them for their correct answers.

## Teaching and Learning Activities:

20min

- Put the cards having the rules of addition and subtraction patterns written on the table. Call students one by one and ask them to pick one card randomly. Then ask them to go back to his/her seat and make a pattern according to that rule in their notebooks. For example, if he/she picks the card with the rule "Adding 3", he/she will have to create a pattern satisfying this rule. Repeat this activity till all students have their turns.

## Review:

3min

Sum up the lesson by explaining the method to find the terms of patterns.

## Evaluation:

10min

Write some number patterns with missing terms on the board and ask them to find the rule of these patterns and complete them. Check their work and guide them if needed.

## Homework:

2min

Solve the given worksheet.

## Worksheet

Name: \_\_\_\_\_

Subject: Maths

Topic Name: Number  
Patterns

1. Write next four terms of the following number patterns.

35, 45, 55, \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_

95, 90, 85, \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_

6, 13, 20, \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_

81, 73, 65, \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_      \_\_\_\_\_

# Lesson Plan

Grade: Four

Subject: Maths

Term: 1st

Time: 40min

Teacher's Name: \_\_\_\_\_

Week : 6

Day: 4

Unit 1: Whole Numbers and Operations

Topic : Number Patterns

## Student Learning Outcomes:

- Complete the given increasing and decreasing number sequence.

## Resource Material:

Chalk/Marker, White/Blackboard, Maths Textbook, Patterns of number cards

## Warm-up Activities:

5min

Before beginning the lesson, ask students to say "Tasmiyah".

Ask student about their homework. Write an addition pattern on the board. Call a student to the front of the class and ask him/her to tell the type of pattern. Take response and appreciate him/her for their good work.

## Teaching and Learning Activities:

20min

- Distribute cards of patterns of numbers with missing terms to each student of the class. Instruct them to observe the rule of the pattern given to them and write the rule of that pattern and then complete the pattern. Roam around the class, check their work and guide them if required. Ask them to raise their hands when finished. Now call each student one by one to the front and ask them to present their work of class. Appreciate them for their active participation.
- Call a student to the front of the class and ask him/her to write one increasing pattern and one decreasing pattern on the board. Ask the rest of the class to check and correct the mistake if required.

## Review:

3min

Recall the lesson by explaining the increasing and decreasing patterns of numbers.

## Evaluation:

10min

To assess the students learning, ask them to make different patterns of the rule.

## Homework:

2min

Revise the classwork.

# Lesson Plan

Grade: Four

Subject: Maths

Term: 1st

Time: 40min

Teacher's Name: \_\_\_\_\_

Week : 6

Day: 5

Unit 1: Whole Number and Operations

Topic: Number Patterns

## Student Learning Outcomes:

- Describe the pattern found in a given table or chart.

## Resource Material:

Chalk/Marker, White/Blackboard, Maths Textbook

## Warm-up Activities:

5min

Before beginning the lesson, ask students to say "Tasmiyah".

Ask students: How are you? Encourage them to say, "Alhamdulillah".

Write the following patterns on the board.

1, 13, 26, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

93, 85, 74, \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_

Ask them to complete the patterns in their notebooks. When they are done, call them randomly and ask about the rules of these patterns. Also ask if they are increasing or decreasing patterns.

## Teaching and Learning Activities:

20min

- Have students open page 25 and look at the example 5.
- Tell them pattern of blue has shown increasing pattern by adding 11 to previous term.
- While the red pattern, move from 98 to above in which every term is obtained by subtracting 10 from previous term.
- Hang the laminated hundreds wallchart on the board or wall. Use an erasable marker and encircle the given numbers as shown in the image. Ask students to observe the numbers and tell what they notice. Take their responses. If someone notices a pattern, appreciate him/her.

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

**Review:** 3min

Recall the lesson by explaining the patterns and their rules in the hundreds chart given on pages 25.

**Evaluation:** 10min

To assess the students, ask them to find the one addition and one subtraction pattern in the 100 number chart.

**Homework:** 2min

Solve Q3 in notebook of exercise 1.8.



# Lesson Plan

Grade: Three

Subject: Maths

Term: 1st

Time: 40min

Teacher's Name: \_\_\_\_\_

Week : 6

Day: 6

Unit 1: Whole Number and Operations

Topic : Number Patterns

## Student Learning Outcomes:

- Describe the pattern found in a given table or chart.

## Resource Material:

Chalk/Marker, White/Blackboard, Maths Textbook, Plastic jar or bowl, Candies, Worksheet

## Warm-up Activities:

5min

Before beginning the lesson, ask students to say "Tasmiyah".

Ask them a few questions related to numbers patterns.

"What is a pattern?"

"What is the difference between increasing and decreasing patterns?"

Take their answers and appreciate them for their good response.

## Teaching and Learning Activities:

25 min

- Have students open page 35 and read example 6.
- Ask them, what is given and what we have to find.
- Explain them here, the company sold 10 more computer in each of the following month.
- If it continuous with same patterns than we have to find number of computer will be sold in October and November.
- So company will be sold 60 computer in October and 70 in November.

Months	No. of Computer sold
June	20
July	30
August	40
September	50
October	60
November	70

## Review:

3min

Sum up the lesson to find the rules of patterns.

## Evaluation:

5min

Ask them to solve Q 4 a ,b and check their work.

## Homework:

2min

Solve the given worksheet.

# Worksheet

Name: \_\_\_\_\_

Subject: Maths

Topic Name: Number  
Patterns

1. Complete the number chart of 7 rows and 7 columns (as shown below) find.

a) To number in the middle colored block.

b) The four pattern rules observed in the chart keeping this number in the middle.

(Note: First one has been done for you.)

Add :6

1	2	3	4			7
8	9	10	11		13	14
15				19		
22						
		31				
	37					
43						49