

CLASS – 4

CHAPTER – 10 – PLAY WITH PATTERNS

LESSON PLAN

Learning Goals	1) Recognize rules in different numbers and alphabet patterns. 2) Identify geometrical patterns based on symmetry 3) Identifies patterns in surrounding e.g. bedsheet, grill and tiles 4) Makes pattern and designs from straight line and other geometrical shapes
Learning Outcomes (LO)	Students will be able to- 1) To observe and understand the pattern in surrounding. 2) Realize the rule of creativity in a pattern 3) Know about symmetrical and non-symmetrical shapes, letters, alphabets and numbers 4) Know patterns involving basic operation 5) Compute the number pattern using addition and subtraction 6) Recognize the rule of coding / decoding the messages 7) Know the rule used in puzzles and games 8) Applies the knowledge to form a pattern.
Teaching Learning Activities Planned	1) Make patterns with numbers and alphabets. 2) Complete magic square and triangle 3) Making designs with help of block 4) Complete number patterns using basic operation- addition, subtraction, multiplication and division 5) Complete number towers 6) Coding and Decoding of secret messages with a rule 7) Making patterns with help of leaves.

Questions on TLOs, HOTS & Correlation with other subjects	1) Continue the pattern- a) 10,20,30,..... b) Ab, Cd, Ef,..... 2) Complete number and alphabet patterns- a) ABC DEF b) 864 764 3) Write your own number/alphabet pattern 4) Make a magic triangle. Rule: using numbers 1-6 and numbers on each side must add up to 10. 5) Rule – if YES becomes ZFT. Decode message- XF BSF GSJFOET CORRELATION : English, EVS, art and craft
Life Skills to be developed	1) Identification of symmetrical and non-symmetrical shapes and patterns 2) Develops mastery over four basic operations 3) Identification of various/numbers/alphabets pattern 4) Sense of similarity and dissimilarity 5) Improvement of presentation of ideas 6) Critical Thinking Analyzing data, finding patterns and extracting conclusions 7) Problem solving
Suggested Activities to inculcate Life Skills	1) Listing of some surrounding objects having patterns 2) Make a pattern in seating arrangement in your class. 3) Visit in a garden or in your school to see the pattern/ symmetry of flowers and leaves 4) Observe and draw the grill or wall pattern

<u>Strategies to evaluate Life Skills</u>	1) Checklists 2) Observation 3) Anecdotal record 4) portfolios
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