WORKSHEET 1 | SEQUENCES

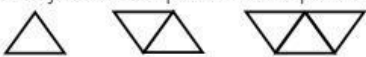NAME: _____ SCORE: _____

Objectives:

1. Identify patterns in sequences
2. Generate rules from patterns

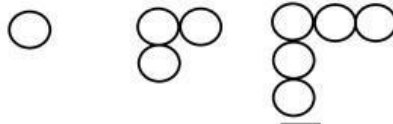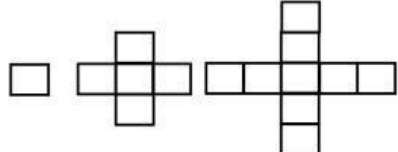3. Solve problems involving sequences

TASKS

Study the figures below and identify the patterns. Write your description of the pattern on the line provided.

A ⬜ _____

B ⬜ _____

C ⬠ _____

D ⭕ _____

E ⬜ _____

Based on the sequences at the right, generate the numerical equivalent of each figure.

A _____, _____, _____

B _____, _____, _____

C _____, _____, _____

D _____, _____, _____

E _____, _____, _____

Draw the next figure for each sequence above.

A	B	C	D	E

Solve the following problems. You may use illustrations to show your solution.

1. Find the next three terms in -2, -6, -18, -54, -162.	
2. Find the next three terms if the rule is $a_n = 2n^2$.	
3. Jim is stacking alphabetic blocks in the pattern shown at the right. The number of blocks in each stack represents the terms in a sequence. What rule describes this pattern?	