Preliminary Planning Sheet for a Mathematics Portfolio Piece/Task

Title of Task: __Bird Watching__

Content Strand(s) Addressed: __Number / Algebra__

State Standard(s) Addressed: _____

Program link: _____

Underlying Mathematical Concepts	Problem Solving Strategies/Representation	Mathematical Language
adding by 2 pattern multiplying by 2 ordinal numbers number to 20 function → rule	diagram / key Table rule graph	diagram / key Table Rule graph day / week / month Pattern 1st, 2nd, 3rd, 4th... even / odd

Possible Solution(s)	Connections	Related Tasks
day | birds 1 | 2 2 | 4 3 | 6 4 | 8 5 | 10 6 | 12 7 | 14 8 | 16 9 | 18 10 | 20 $2 \cdot d = b$ $d + d = b$	- day pattern +1 • graph table - bird pattern +2 • continue days • total birds in all • generalize + verify rule $d+d=b$ • verify table (solution) with another representation • change pattern to recreate problem	