## SQUARE NUMBERS AND SQUARE ROOTS INVESTIGATION NATURAL NUMBERS



Natural Numbers are the counting numbers 1, 2, 3, 4 and so on.
First complete the table below. Look for patterns.

| Number | Cube | Sum of the cubes | Square root of the <br> sum of the cubes <br> $n$ |
| :---: | :---: | ---: | :---: |
| $n$ | $n^{3}$ | $S\left(n^{3}\right)$ | $\sqrt{S\left(n^{3}\right)}$ |

Now write a formula that expresses the sum of $n$ consecutive cubes.

