

The case when induction works best:

- $\forall n \in \mathbb{N}$, object _{n} has formula $f(n)$
- Prove formula works for $n = 1$ (**base case**).
- Then assume formula works for k , prove works for $k + 1$ (**induction step**).
- **Note:** When there is a recursive formula, this is best.