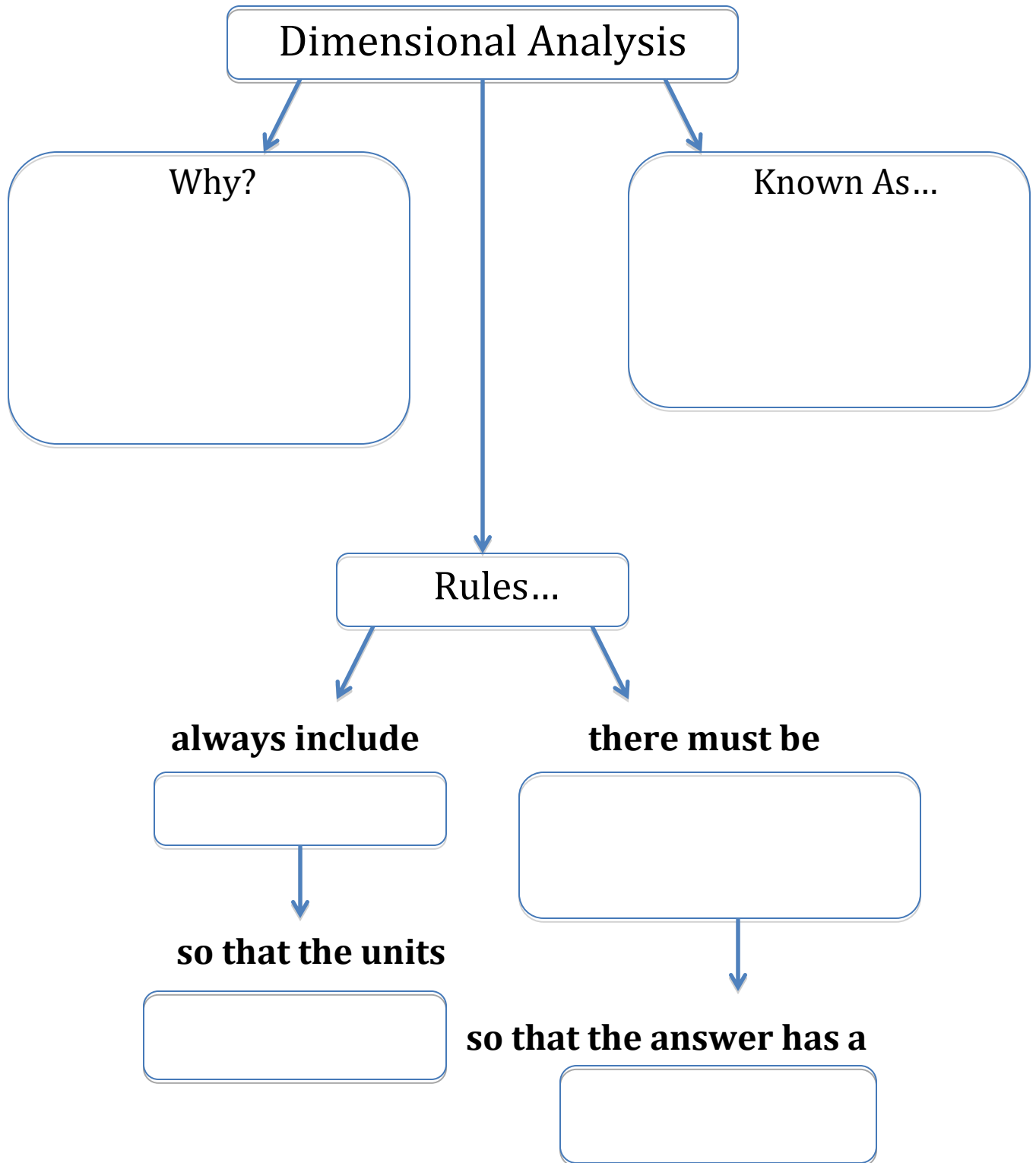


General Science Notes  
Conversions



**Problem:** How many seconds are in a day?

**Want to know:** sec/day

**Know:**  $60\text{sec}/1\text{min}$   $1\text{min}/60\text{sec}$   $60\text{min}/1\text{hr}$   $1\text{hr}/60\text{min}$   $1\text{day}/24\text{hr}$   $24\text{hr}/1\text{day}$

**Solve:**

$$\frac{60\text{ sec}}{1\text{ min}} \times \frac{60\text{ min}}{1\text{ hr}} \times \frac{24\text{ hr}}{1\text{ day}} = \frac{86400\text{sec}}{1\text{ day}}$$

Examples:

2) 3 miles = ? inches

3) 852 m = ? km

4) 74 km = ? cm

5) 7.0 days = ? seconds

6) 10 km = ? miles

7) 6 km/hr = ? km/s

8) 55 miles/hour = ? feet/second