Idleon Formulas

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Sacrezar

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1 Introduction

TODO

2 Global

2.1 XP needed to IvI up

$$\begin{aligned} XP_{\text{Class}} &= \left[\left(15 + \text{lvl}^{1.9} + 11 \times \text{lvl} \right) \times \left(1.208 - \min \left\{ 0.164, \frac{0.215 \times \text{lvl}}{\text{lvl} + 100} \right\} \right)^{\text{lvl}} - 15 \right] \\ XP_{\text{Skill}} &= \left[\left(15 + \text{lvl}^2 + 15 \times \text{lvl} \right) \times \left(1.225 - \min \left\{ 0.164, \frac{0.135 \times \text{lvl}}{\text{lvl} + 50} \right\} \right)^{\text{lvl}} - 30 \right] \\ XP_{\text{Smithing}} &= \left[\left(15 + \text{lvl}^2 + 13 \times \text{lvl} \right) \times \left(1.225 - \min \left\{ 0.164, \frac{0.135 \times \text{lvl}}{\text{lvl} + 50} \right\} \right)^{\text{lvl}} - 30 \right] \end{aligned}$$

2.2 Fighting Formulas

- 2.2.1 Damage done
- 2.2.2 Damage taken per hit

$$Damage = \left\lceil \frac{attack_{enemy} - 2.5 \times defense^{0.8}}{max \left\{ 1, 1 + \frac{defense^{1.5}}{100} \times \frac{defense}{max \left\{ 1, attack_{enemy} \right\}} \right\}} \right\rceil$$

3 Talents

3.1 Star Talents

3.1.1 Stonks!

$$Points = 130 \times \frac{x}{x + 50}$$

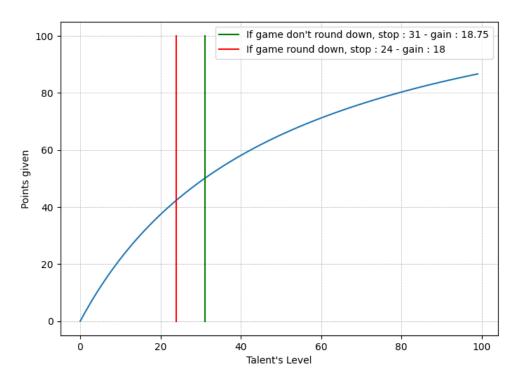


Figure 3.1.1: Where to stop leveling up Stonks!

4 Alchemy

4.1 P2W tab

4.1.1 Cauldron

$$\begin{split} regen_\% &= \frac{16 + 0.5 \times (regenLvl - 1)}{15} \times regenLvl \times 3 \\ newBubble &= 1 + \frac{newBubbleLvl \times 2.5}{newBubbleLvl + 100} \\ boostReqLow_\% &= 70 \times \frac{boostLvl}{100 + boostLvl} \end{split}$$

4.1.2 Liquid

$$regen_{\%} = 400 \times \frac{regenLvl}{100 + regenLvl}$$

$$cap = capLvl$$

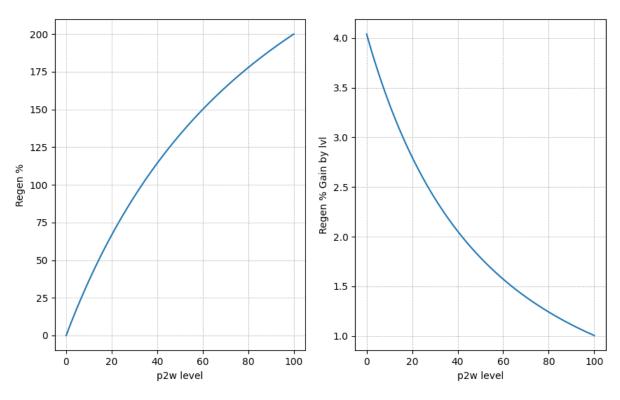


Figure 4.1.1: How much regen you gain with p2w

4.1.3 Vials

$$\begin{split} cap &= capL\nu l \\ rng &= 250 \times \frac{rngL\nu l}{100 + rngL\nu l} \end{split}$$

4.1.4 Player

$$\begin{split} AlchSpeed_\% &= 35 \times \frac{AlchSpeedL\nu l}{100 + AlchSpeedL\nu l} \\ ExtraXP_\% &= \frac{11 + 0.5 \times (ExtraXPL\nu l - 1)}{10} \times ExtraXPL\nu l \end{split}$$

4.2 Liquid & Cauldron

4.2.1 Liquid

$$liquid_{/\text{hour}} = \left(1 + \frac{\text{decant}_{\%} + \text{RLP2W}_{\%} + \text{vial}_{\%}}{100}\right) \times \left(1 + \frac{\text{stamp}_{\%} + \sum \left((\text{alchLvl} * 2 + 4)^{0.65}\right)}{100}\right)$$

• RLP2W_% is P2W Liquid Regen

Multiply $liquid_{/hour}$ by 1.5 if you bought the gem upgrade.

4.2.2 Cauldron

TODO

4.3 Bubble

TODO

5 Post Office

TODO

6 Other

6.1 Boxes

Beware, the prowess effect in each box affect only the concerned skill although it's only written "prowess".

6.1.1 Civil War Memory

$$\begin{split} \text{damage}_{\text{base}} &= \text{lvl} \\ \text{fightGain}_{\%} &= 13 \times \frac{\text{lvl} - 25}{\text{lvl} - 25 + 200} \\ \text{crit}_{\%} &= 10 \times \frac{\text{lvl} - 100}{\text{lvl} - 100 + 200} \end{split}$$

6.1.2 Locally Sourced Organs

$$\begin{aligned} \text{maxHP} &= 1 + \left\lfloor \frac{l \nu l}{2} \right\rfloor \\ \text{maxHP}_{\%} &= 0.1 (l \nu l - 25) \\ \text{selfHeal}_{\%} &= 25 \times \frac{l \nu l - 100}{l \nu l - 100 + 200} \end{aligned}$$

6.1.3 Magician Starterpack

$$\begin{aligned} \text{maxMP} &= 1 + \left\lfloor \frac{\text{lvl}}{3} \right\rfloor \\ \text{maxHP}_{\%} &= 0.1(\text{lvl} - 25) \\ \text{fasterCD} &= 17 \times \frac{\text{lvl} - 100}{\text{lvl} - 100 + 200} \end{aligned}$$

6.1.4 Bolvl of Unwanted Stats

$$\begin{aligned} &accuracy = 0.25lvl\\ &defence = 0.3(lvl - 25)\\ &MobExp_\% = 29 \times \frac{lvl - 100}{lvl - 100 + 170} \end{aligned}$$

6.1.5 Dwarven Supplies

$$\begin{split} \text{efficiency}_{\text{mining}} &= 50 \times \frac{\text{lvl}}{\text{lvl} + 200} \\ \text{prowess}_{\%} &= 40 \times \frac{\text{lvl} - 25}{\text{lvl} - 25 + 150} \\ \text{AFKGain}_{\text{mining}} &= 15 \times \frac{\text{lvl} - 100}{\text{lvl} - 100 + 175} \end{split}$$

6.1.6 Blacksmith Box

$$\begin{split} \text{XP}_{\text{Smithing}} &= 50 \times \frac{\text{lvl}}{\text{lvl} + 200} \\ \text{prodSpeed}_{\%} &= 75 \times \frac{\text{lvl} - 25}{\text{lvl} - 25 + 200} \\ \text{toCraft}_{\%} &= 30 \times \frac{\text{lvl} - 100}{\text{lvl} - 100 + 150} \end{split}$$

6.1.7 Taped Up Timber

$$\begin{split} \text{efficiency}_{\text{choppin}} &= 50 \times \frac{\text{lvl}}{\text{lvl} + 200} \\ \text{prowess}_{\%} &= 40 \times \frac{\text{lvl} - 25}{\text{lvl} - 25 + 150} \\ \text{AFKGain}_{\text{choppin}} &= 15 \times \frac{\text{lvl} - 100}{\text{lvl} - 100 + 175} \end{split}$$

6.1.8 Carepack From Mum

$$\begin{split} &\text{notConsume}_\% = 23 \times \frac{l \nu l}{l \nu l + 200} \\ &\text{hFoodEffect}_\% = 30 \times \frac{l \nu l - 25}{l \nu l - 25 + 150} \\ &\text{pFoodEffect}_\% = 30 \times \frac{l \nu l - 100}{l \nu l - 100 + 175} \end{split}$$

6.1.9 Sealed Fishheads

$$\begin{split} \text{efficiency}_{\texttt{fishing}} &= 50 \times \frac{l \nu l}{l \nu l + 200} \\ \text{prowess}_{\%} &= 40 \times \frac{l \nu l - 25}{l \nu l - 25 + 150} \\ \text{AFKGain}_{\texttt{fishing}} &= 15 \times \frac{l \nu l - 100}{l \nu l - 100 + 175} \end{split}$$

6.1.10 Potion Package

$$brewSpeed_{\%} = 70 \times \frac{lvl}{lvl + 200}$$

$$alchXP_{\%} = 60 \times \frac{lvl - 25}{lvl - 25 + 150}$$

$$craniumTime = 0.1(lvl - 100)$$

6.1.11 Bug Hunting Supplies

$$\begin{split} \text{efficiency}_{\texttt{catching}} &= 50 \times \frac{l \nu l}{l \nu l + 200} \\ \text{prowess}_{\%} &= 40 \times \frac{l \nu l - 25}{l \nu l - 25 + 150} \\ \text{AFKGain}_{\texttt{catching}} &= 15 \times \frac{l \nu l - 100}{l \nu l - 100 + 175} \end{split}$$

6.1.12 Non Predatory Loot Box

$$\begin{split} dropRate_\% = 50 \times \frac{l\nu l}{l\nu l + 200} \\ Luck = 0.25(l\nu l - 25) \\ crystalSpawn_\% = 65 \times \frac{l\nu l - 100}{l\nu l - 100 + 200} \end{split}$$

References