What, Why & How

What

Three step process for users:

- 1. Input personal information
 - Calculates calorie goals
- 2. Specify macro-nutrient mix
 - Sets target macros
- 3. Select Favourite Foods
 - Generates meal ideas

Results:

- Daily Calorie targets
- Macro nutrient mixes
- Sample meal plans general

Why

Benefits of planning

- 1. Structure/ accountability.
 Counting calories lets you know exact you should eat and plan meals and gly.
- 2. motivational.

When your diet improves, the i

3. better :hoices.

Counting es can help you ify which foods are enut. es and whic is lack nutritional

4. ge ex∈.

at exercise helps burn calories can inspire you to ge f the couch and move.

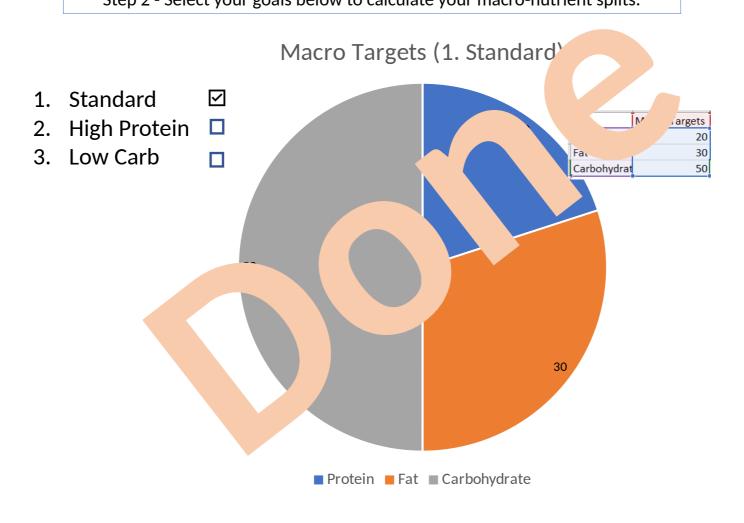
How

- Harris nedict formula for BMR
- Diet is for Macro mixes ce for Food content (P/F/C) user choice for available foods/menu
- Follow 3-step process ->

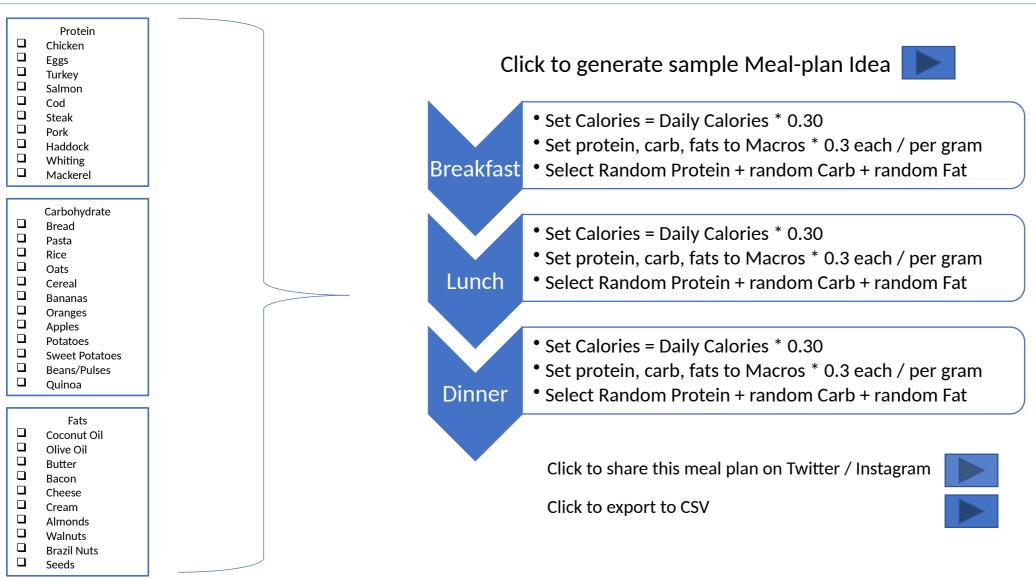
Step 1 - Populate the input fields below to calculate your calorie goals

Metric	Units	User Input	
Height	cm	Input Hairbt	
	inches	Input Hairt	
Weight	kg	Wajah	
	lbs	Weight	
Age	years		
		ln, ⁺e	
Gender			
		ctGei Jer	
activit,		stimate	
		Activity Level	
Calories to:			
	/laintain	Output	Formula
	Gain weight	Output	Formula
	Lose weight	Output	Formula

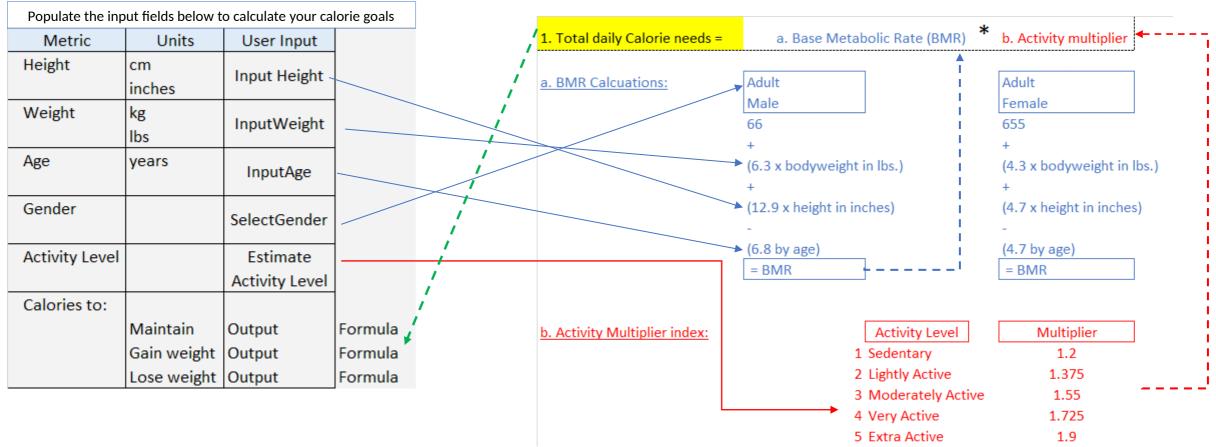




Step 3 - Tick/check boxes for foods you like from each category below to generate sample meal-plan ideas which fit your caloric goals & macro-nutrient targets



Formulas & Logic (For Javascript)



Checks & controls (examples)

- Age check
 - If <18 throw a warning to come back when old enough
- Calorie check
 - If calories fall below recommended minimums warning

Step 1 **Initial Calorie Calculation Browser window Javascript** User inputs their height Allow inches or centimetre ➤ Height Variable Do not allow height to be too small or too large Do not allow to be blank Personal Data Units User Input User inputs their height Input Height Allow kilograms or pounds Weight Variable a. Base Metabolic Rate (BMR) * b. Activity multiplier 1. Total daily Calorie needs = Weight Do not allow weight to be too small or too large InputWeight Do not allow to be blank Age years InputAge User inputs their age Female Gender M/F Measured in years SelectGender Do not allow age to be <18 Do not allow age to be >120 1-5 (4.3 x bodyweight in lbs.) Activity Level Estimate Activity Level User selects Gender from dropdown men (12.9 x height in inches) (4.7 x height in inches) Set to either Male or Female - used in BMR formula Maintain Gain weight Outputs (4.7 by age) User selects an estimated activity level from a dropdown menu = BMR = BMR Lightly Active b. Activity Multiplier index: Multiplier Moderately Active → Activity Level variable Very Active 5 Extra Active 1.375 2 Lightly Active Calculation 3 Moderately Active 1.55 Maintenance Daily Calorie goal is output of calculation (See BMR formula) 4 Very Active 1.725 To obtain "Gain Weight" goal - take maintenance plus 500 calories 1.9 To obtain "Lose Weight" goal - take maintenance less 500 calories Calorie variable User ticks a box for which of the three scenarios to carry forwards to Step 2 Step 2 Macro Split Calculation Browser window Javascript Scenario 1: Standard split Calories to: Get Step 1 Maintain 2500 3000 User selection: Gain weight Output 1 Standard Lose weight 2000 2 High Protein Protein 125g 3 Low Carb Pre-defined Macro scenario splits: Daily Grams Macronutrient Allocation 20% 500 125g 188g 1250 139g 451g Carbohydrate 188g Scenario 2: High Protein Macronutrient Allocation Protein Calories % 1125 Daily Grams 281g 30% 25% 750 188g 69g 538g ■ Protein ■ Carbohydrate ■ Fat Scenario 3: Low Carb Macronutrient Allocation Daily Grams 20% 500 10% 250 70% 1750 125g Carbohydrate 63g 194g Macronutrient Calories per 1g

Checks & controls

- Age check
 - If <18 throw a warning to come back when old enough
- Calorie check
 - If calories fall below recommended minimums warning
- Gender
 - Male or Female

random foods from macro nutrient arrays =VLOOKUP(RANDBETWEEN(1,5), \$\\$\\$\\$105:\$M\$\\$109,2,0) **I114** Α М 0 Q R 91 Start with PDCT 92 93 Protein Carb Fat Total Standard static 94 500 750 1,250 2,500 from step : calories % split per meal Use Macro Mix (selected by user in 95 step 2) to allocate %'s across 96 50% from step 2 Sample Meal ratios: 20% 30% macronutrients (prot/carb/fat) 97 Protein Carb Fat Total 98 meal plan ratio calculator Breakfast 125 188 313 625 step 3 263 99 Use meal splits 35% Lunch 175 438 875 step 3 100 (pre-determined/static %) to split per meal 40% Dinner 200 300 500 1,000 step 3 check 101 500 750 1,250 allocate calories by macronutrient Total 2,500 step 4 TRUE 102 check TRUE TRUE TRUE by meal 103 Food lookup index -104 cal/g Fat cal/g Protein cal/g Carb index#: cross referenced by 105 4.02 Final index will be larger to provide variety Foods lookup index chicken 2 bread 3 cheese meal plan generator 106 8.84 Initial index to test & develop formulas fish pasta 1.31 Olive Oil 107 Index is used in meal plan Turkey 1.9 Potatoes 0.77 Nuts 6.07 108 generator lookup for each 2.42 Quinoa 1.2 Mixed Seed 5.59 Pork 109 food group steak 3 rice 1.3 Avocado 1.6 110 Carbohydrate 111 Protein Fat 112 food food calories food grams calories grams calories grams meal plan generator Meal: 113 114 fish Breakfast 63 125 pasta 143 188 Avocado 195 313 115 Lunch chicken 88 175 200 263 Olive Oil 49 438 pasta Dinner 116 100 200 231 300 cheese 124 500 chicken rice 117 500 750 1,250 Total 118 *Also Include 1 serving of Fresh Vegetables with each meal (Broccoli, Lettuce, Cauliflower, Red/Green/Yellow Peppers, Mushrooms etc) 119 **Fresh vegetables are often considered "free" caloric content, due to their other health benefits - fibre, micronutrients, glycemic index etc 120 121 122

123

Random Number generated to select