

# Growth Science Feeding Chart

|                                               | Stage 1 - Propagate                                                                   |                      | Stage 2 - Grow       |                      |                      | Stage 3 - Bloom        |                      |                      |                      |                      |                      |                     |                     |
|-----------------------------------------------|---------------------------------------------------------------------------------------|----------------------|----------------------|----------------------|----------------------|------------------------|----------------------|----------------------|----------------------|----------------------|----------------------|---------------------|---------------------|
|                                               | Germination                                                                           | Seedling / Cuttings  | Vegetative           |                      |                      | Bud to Flower to Fruit |                      |                      |                      |                      |                      |                     |                     |
| Growth Week                                   | 1                                                                                     | 2                    | All Weeks            |                      |                      | 1                      | 2                    | 3                    | 4                    | 5                    | 6                    | 7                   | 8 <sup>1</sup>      |
| The Grower's Secret METHOD                    | GROWER'S SECRET PROFESSIONAL™ is highly concentrated and measured in drops per gallon |                      |                      |                      |                      |                        |                      |                      |                      |                      |                      |                     |                     |
| GROWER'S SECRET PROFESSIONAL™                 | 2 drops                                                                               | 2 drops              | 2 drops              | 2 drops              | 2 drops              | 2 drops                | 2 drops              | 2 drops              | 2 drops              | 2 drops              | 2 drops              | 2 drops             |                     |
| AMOUNTS in milliliters (teaspoons) per gallon |                                                                                       |                      |                      |                      |                      |                        |                      |                      |                      |                      |                      |                     |                     |
| ACCELERATE                                    |                                                                                       | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)      | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)    | 5 ml<br>(1.6 tsp)   | 5 ml<br>(1.6 tsp)   |
| EXPAND                                        |                                                                                       | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)       | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)    | 15 ml<br>(3 tsp)    |
| STRENGTHEN                                    |                                                                                       |                      |                      | 20 ml<br>(4 tsp)     | 13 ml<br>(2.6 tsp)   | 13 ml<br>(2.6 tsp)     | 13 ml<br>(2.6 tsp)   | 13 ml<br>(2.6 tsp)   | 13 ml<br>(2.6 tsp)   | 13 ml<br>(2.6 tsp)   | 13 ml<br>(2.6 tsp)   | 13 ml<br>(2.6 tsp)  | 13 ml<br>(2.6 tsp)  |
| ENERGIZE                                      |                                                                                       |                      | 5.5 ml<br>(1.1 tsp)  | 5.5 ml<br>(1.1 tsp)  | 5.5 ml<br>(1.1 tsp)  | 5.5 ml<br>(1.1 tsp)    | 5.5 ml<br>(1.1 tsp)  | 5.5 ml<br>(1.1 tsp)  | 5.5 ml<br>(1.1 tsp)  | 5.5 ml<br>(1.1 tsp)  | 5.5 ml<br>(1.1 tsp)  | 5.5 ml<br>(1.1 tsp) | 5.5 ml<br>(1.1 tsp) |
| PURCH                                         |                                                                                       | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)       | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)     | 20 ml<br>(4 tsp)    | 15 ml<br>(3 tsp)    |
| Green Up<br>(S-S, L-S)                        |                                                                                       | 4 ml<br>(0.8 tsp)    | 4 ml<br>(0.8 tsp)    | 4 ml<br>(0.8 tsp)    | 4 ml<br>(0.8 tsp)    | As needed              | As needed            | As needed            | As needed            | As needed            | As needed            | As needed           | As needed           |
| AMOUNTS in grams (teaspoons) per gallon       |                                                                                       |                      |                      |                      |                      |                        |                      |                      |                      |                      |                      |                     |                     |
| VITALIZE                                      |                                                                                       | 0.87 g<br>(0.22 tsp) | 0.87 g<br>(0.22 tsp) | 0.87 g<br>(0.22 tsp) | 0.87 g<br>(0.22 tsp) | 0.87 g<br>(0.22 tsp)   | 0.87 g<br>(0.22 tsp) | 0.87 g<br>(0.22 tsp) | 0.87 g<br>(0.22 tsp) | 0.87 g<br>(0.22 tsp) | 0.87 g<br>(0.22 tsp) |                     |                     |
| FORTIFY*                                      |                                                                                       | 28 g<br>(12 tsp)     |                      |                      |                      |                        |                      |                      |                      |                      |                      |                     |                     |
| OPTIONAL Products Use as Needed               |                                                                                       |                      |                      |                      |                      |                        |                      |                      |                      |                      |                      |                     |                     |
| AMOUNTS in milliliters (teaspoons) per gallon |                                                                                       |                      |                      |                      |                      |                        |                      |                      |                      |                      |                      |                     |                     |
| THICKEN*                                      |                                                                                       |                      | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)       | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)     | 15 ml<br>(3 tsp)    | 15 ml<br>(3 tsp)    |
| AMOUNTS in grams (teaspoons) per gallon       |                                                                                       |                      |                      |                      |                      |                        |                      |                      |                      |                      |                      |                     |                     |
| Grower's Secret Nitrogen (1.2-6-6 Dry)        |                                                                                       | 0.79 g<br>(0.3 tsp)  | 0.79 g<br>(0.3 tsp)  | 0.79 g<br>(0.3 tsp)  | 0.79 g<br>(0.3 tsp)  | As Needed              | As Needed            | As Needed            | As Needed            | As Needed            | As Needed            | As Needed           | As Needed           |
| Cal Mag*                                      |                                                                                       | As Needed            | As Needed            | As Needed            | As Needed            | As Needed              | As Needed            | As Needed            | As Needed            | As Needed            | As Needed            | As Needed           | As Needed           |

<sup>1</sup>We recommend a minimum of a 12-week cycle. However, you know your plants and system better than we do and you can customize the Grower's Secret Method by adding or deleting weeks from the schedule. If you add weeks to the growth schedule, apply the same rates and products as used in the previous week. If deleting weeks, refer to the above chart for proper product and rate selection.

\*Flushing with water is recommended.

\*Fortify is to be applied in the soil before planting at a rate of 28 grams of product per 5 gallons of potting mix and is not intended for use in a nutrient feed system.

\*Do not use in highly aerated systems as undesirable foam may occur. If used, reduce the rate to level where foam is not a problem in your system.

\*Cal Mag: Some genetics require additional Cal Mag to be added to the system from products outside the Grower's Secret line.

**GROWTH SCIENCE FEEDING CHART** IS AN ESSENTIAL TOOL FOR PARENTS AND CAREGIVERS WHO AIM TO ENSURE THAT CHILDREN RECEIVE THE RIGHT NUTRITION FOR HEALTHY GROWTH AND DEVELOPMENT. AS CHILDREN PROGRESS FROM INFANCY THROUGH CHILDHOOD, THEIR NUTRITIONAL NEEDS CHANGE SIGNIFICANTLY. A GROWTH SCIENCE FEEDING CHART ASSISTS IN UNDERSTANDING THESE NEEDS AND PROVIDES A STRUCTURED APPROACH TO FEEDING THAT ALIGNS WITH DEVELOPMENTAL MILESTONES. THIS ARTICLE DELVES INTO THE COMPONENTS OF THE GROWTH SCIENCE FEEDING CHART, ITS IMPORTANCE, HOW TO USE IT EFFECTIVELY, AND COMMON QUESTIONS SURROUNDING CHILD NUTRITION.

## UNDERSTANDING GROWTH SCIENCE FEEDING CHARTS

A GROWTH SCIENCE FEEDING CHART IS A VISUAL REPRESENTATION OF RECOMMENDED DIETARY GUIDELINES TAILORED FOR DIFFERENT AGE GROUPS. IT ENCOMPASSES VARIOUS FOOD GROUPS, PORTION SIZES, AND NUTRITIONAL NEEDS. THESE CHARTS ARE BASED ON EXTENSIVE RESEARCH CONDUCTED BY NUTRITION EXPERTS AND HEALTH ORGANIZATIONS, ENSURING THEY REFLECT THE MOST CURRENT UNDERSTANDING OF CHILD NUTRITION.

## COMPONENTS OF A GROWTH SCIENCE FEEDING CHART

1. **AGE GROUPS:** THE CHART TYPICALLY CATEGORIZES FEEDING RECOMMENDATIONS BASED ON AGE, SUCH AS:
  - INFANTS (0-12 MONTHS)
  - TODDLERS (1-3 YEARS)
  - PRESCHOOLERS (4-5 YEARS)
  - SCHOOL-AGED CHILDREN (6-12 YEARS)
2. **FOOD GROUPS:** THE CHART OUTLINES ESSENTIAL FOOD GROUPS, INCLUDING:
  - FRUITS AND VEGETABLES
  - GRAINS
  - PROTEIN SOURCES (MEAT, FISH, BEANS, NUTS)
  - DAIRY PRODUCTS
3. **PORTION SIZES:** RECOMMENDED SERVING SIZES FOR EACH FOOD GROUP ARE SPECIFIED, WHICH HELPS PARENTS ENSURE THEIR CHILDREN ARE RECEIVING ADEQUATE NUTRITION WITHOUT OVEREATING.

4. **NUTRITIONAL GUIDELINES:** DAILY VALUES FOR CALORIES, VITAMINS, AND MINERALS ARE ALSO INCLUDED. THIS INFORMATION IS CRUCIAL FOR MAINTAINING BALANCED NUTRITION.

## THE IMPORTANCE OF A GROWTH SCIENCE FEEDING CHART

USING A GROWTH SCIENCE FEEDING CHART HAS SEVERAL BENEFITS:

1. **PROMOTES HEALTHY GROWTH:** PROPER NUTRITION DURING FORMATIVE YEARS IS CRUCIAL FOR PHYSICAL AND COGNITIVE DEVELOPMENT. THE CHART HELPS PARENTS PROVIDE BALANCED MEALS THAT SUPPORT OPTIMAL GROWTH.
2. **PREVENTS NUTRITIONAL DEFICIENCIES:** BY FOLLOWING THE RECOMMENDATIONS, PARENTS CAN REDUCE THE RISK OF DEFICIENCIES IN ESSENTIAL VITAMINS AND MINERALS, WHICH CAN LEAD TO HEALTH PROBLEMS.
3. **ESTABLISHES HEALTHY EATING HABITS:** INTRODUCING A VARIETY OF FOODS AT A YOUNG AGE ENCOURAGES CHILDREN TO DEVELOP HEALTHY EATING HABITS THAT CAN LAST A LIFETIME.
4. **EASES MEAL PLANNING:** A FEEDING CHART SIMPLIFIES MEAL PLANNING FOR FAMILIES, MAKING IT EASIER TO INCLUDE THE RIGHT AMOUNT OF EACH FOOD GROUP.

## HOW TO USE A GROWTH SCIENCE FEEDING CHART

TO EFFECTIVELY UTILIZE A GROWTH SCIENCE FEEDING CHART, FOLLOW THESE STEPS:

### 1. ASSESS YOUR CHILD'S AGE AND NEEDS

BEGIN BY IDENTIFYING YOUR CHILD'S AGE CATEGORY. THIS WILL GUIDE YOU TO THE APPROPRIATE SECTION OF THE CHART AND HELP YOU UNDERSTAND THEIR SPECIFIC NUTRITIONAL REQUIREMENTS.

### 2. PLAN BALANCED MEALS

WHEN PREPARING MEALS, REFER TO THE CHART TO ENSURE THAT YOU ARE INCLUDING A VARIETY OF FOOD GROUPS. AIM FOR MEALS THAT INCORPORATE:

- **FRUITS AND VEGETABLES:** INCLUDE COLORFUL OPTIONS TO MAXIMIZE NUTRIENT INTAKE.
- **WHOLE GRAINS:** CHOOSE WHOLE GRAIN BREAD, PASTA, AND CEREALS OVER REFINED OPTIONS.
- **PROTEIN SOURCES:** INCORPORATE LEAN MEATS, FISH, EGGS, AND PLANT-BASED PROTEINS.
- **DAIRY:** SELECT LOW-FAT OR FAT-FREE DAIRY OPTIONS TO PROVIDE CALCIUM AND VITAMIN D.

### 3. MONITOR PORTION SIZES

USE THE CHART TO GAUGE APPROPRIATE PORTION SIZES FOR YOUR CHILD'S AGE. IT'S IMPORTANT TO AVOID OVERWHELMING CHILDREN WITH PORTIONS THAT ARE TOO LARGE, AS THIS CAN LEAD TO OVEREATING OR FOOD AVERSIONS.

### 4. BE FLEXIBLE AND ADAPT

WHILE THE CHART PROVIDES GUIDELINES, IT'S ESSENTIAL TO REMAIN FLEXIBLE. CHILDREN'S APPETITES CAN VARY DAILY, AND IT'S

NORMAL FOR THEM TO HAVE DIFFERENT PREFERENCES. ADAPT MEALS ACCORDING TO YOUR CHILD'S LIKES WHILE STILL AIMING FOR BALANCED NUTRITION.

## COMMON QUESTIONS ABOUT CHILD NUTRITION

### 1. HOW CAN I ENCOURAGE MY CHILD TO TRY NEW FOODS?

- LEAD BY EXAMPLE: SHOW ENTHUSIASM FOR A VARIETY OF FOODS AND INCLUDE THEM IN FAMILY MEALS.
- MAKE IT FUN: USE CREATIVE PRESENTATION, SUCH AS SHAPES OR COLORS, TO MAKE FOOD APPEALING.
- INVOLVE THEM IN COOKING: ALLOWING CHILDREN TO HELP PREPARE MEALS CAN INCREASE THEIR INTEREST IN TRYING NEW FOODS.

### 2. WHAT SHOULD I DO IF MY CHILD IS A PICKY EATER?

- OFFER CHOICES: PROVIDE A SELECTION OF HEALTHY FOODS AND LET YOUR CHILD CHOOSE WHAT THEY WANT TO EAT.
- DON'T FORCE: AVOID PRESSURING THEM TO EAT CERTAIN FOODS; INSTEAD, KEEP INTRODUCING OPTIONS OVER TIME.
- STICK TO ROUTINE: SERVE MEALS AND SNACKS AT REGULAR TIMES TO ESTABLISH A HEALTHY EATING PATTERN.

### 3. ARE THERE ANY FOODS I SHOULD AVOID?

IT'S RECOMMENDED TO LIMIT THE FOLLOWING:

- SUGARY SNACKS AND DRINKS: THESE CAN LEAD TO CAVITIES AND UNHEALTHY WEIGHT GAIN.
- PROCESSED FOODS: HIGHLY PROCESSED FOODS OFTEN CONTAIN UNHEALTHY FATS, SUGARS, AND PRESERVATIVES.
- HIGH-SODIUM FOODS: BE CAUTIOUS WITH SALT INTAKE AS CHILDREN'S TASTE BUDS ARE MORE SENSITIVE.

## CONCLUSION

IN CONCLUSION, THE GROWTH SCIENCE FEEDING CHART IS AN INVALUABLE RESOURCE FOR PARENTS AND CAREGIVERS AIMING TO PROVIDE OPTIMAL NUTRITION FOR CHILDREN. BY UNDERSTANDING THE CHART'S COMPONENTS AND FOLLOWING ITS GUIDELINES, FAMILIES CAN PROMOTE HEALTHY GROWTH, PREVENT NUTRITIONAL DEFICIENCIES, AND CULTIVATE LIFELONG HEALTHY EATING HABITS. AWARENESS AND FLEXIBILITY ARE KEY; EVERY CHILD'S NEEDS ARE UNIQUE, AND ADAPTING MEALS TO SUIT INDIVIDUAL PREFERENCES IS ESSENTIAL. WITH THE RIGHT APPROACH TO NUTRITION, PARENTS CAN LAY THE FOUNDATION FOR THEIR CHILDREN'S HEALTH AND WELL-BEING FOR YEARS TO COME.

## FREQUENTLY ASKED QUESTIONS

### WHAT IS A GROWTH SCIENCE FEEDING CHART?

A GROWTH SCIENCE FEEDING CHART IS A TOOL USED TO TRACK AND GUIDE THE NUTRITIONAL INTAKE AND GROWTH PATTERNS OF CHILDREN, OFTEN PROVIDING RECOMMENDED SERVINGS FOR DIFFERENT FOOD GROUPS BASED ON AGE AND DEVELOPMENTAL STAGES.

### HOW CAN PARENTS EFFECTIVELY USE A GROWTH SCIENCE FEEDING CHART?

PARENTS CAN USE A GROWTH SCIENCE FEEDING CHART BY COMPARING THEIR CHILD'S CURRENT FOOD INTAKE WITH THE

RECOMMENDED SERVINGS, ENSURING A BALANCED DIET THAT SUPPORTS HEALTHY GROWTH AND DEVELOPMENT.

## WHAT AGE GROUPS ARE TYPICALLY COVERED BY GROWTH SCIENCE FEEDING CHARTS?

GROWTH SCIENCE FEEDING CHARTS USUALLY COVER A WIDE RANGE OF AGE GROUPS, FROM INFANTS TO TODDLERS AND PRESCHOOLERS, WITH SPECIFIC RECOMMENDATIONS TAILORED TO EACH DEVELOPMENTAL STAGE.

## ARE GROWTH SCIENCE FEEDING CHARTS BASED ON SCIENTIFIC RESEARCH?

YES, GROWTH SCIENCE FEEDING CHARTS ARE BASED ON SCIENTIFIC RESEARCH AND GUIDELINES FROM HEALTH ORGANIZATIONS, ENSURING THAT THE RECOMMENDATIONS ARE EVIDENCE-BASED AND REFLECT THE NUTRITIONAL NEEDS OF GROWING CHILDREN.

## HOW DO I KNOW IF MY CHILD IS FOLLOWING THE GROWTH SCIENCE FEEDING CHART CORRECTLY?

TO DETERMINE IF YOUR CHILD IS FOLLOWING THE GROWTH SCIENCE FEEDING CHART CORRECTLY, MONITOR THEIR GROWTH METRICS (LIKE HEIGHT AND WEIGHT), OBSERVE THEIR EATING HABITS, AND CONSULT WITH A PEDIATRICIAN OR NUTRITIONIST FOR PERSONALIZED ADVICE.

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