The Chart Book

An Overview of Standard Celeration Chart Conventions and Practices

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An Updated Version will replace this soon.
Introduction

This book has been created to provide an overview of the Standard Celeration Chart and the conventions for its use. The basic rationale for a standard chart will also be presented, along with references to more complete descriptions of the chart.

At least some of the “conventions” discussed in this book have been interpreted and implemented differently by other people — primarily the conventions concerning record floors, ceilings, and aim-stars. That different interpretations exist will be noted as appropriate in this book, but for a complete discussion of those differences, the reader is encouraged to pursue the references provided at the end of this book.

Getting the Standard Chart

Many variations of the standard chart have been produced with minor differences in typeface, labels, etc. However, all “standard” variations use the same basic grid, so the essential characteristics of the performance records will always appear the same.

The original Chart (that is, the “true standard”) can be ordered from:

Behavior Research Company
Box 3351, Kansas City, KS 66103

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Why a Standard Chart?

To Save Time. The main reason we use a standard chart is to save time. In the late 1960's, when Ogden Lindsley began helping teachers track their pupils' progress so they could make timely and precise instructional decisions, he discovered that evaluating and communicating information about progress could be a very time-consuming business:

The teachers shared their progress on these behavior change projects by showing charts in class each week. It took 20 to 30 minutes to share one behavior project because most of this time was spent describing each teacher's unique charting and recording system. (p. 11, Lindsley, O. R., 1990, Precision teaching: By teachers for children. Teaching Exceptional Children, 22(3), 10-15)

For example, a quick examination of the three charts shown at the right suggests projects with three very different outcomes. Chart “A” shows hardly any progress at all; Chart “B” shows terrific progress, and chart “C” shows progress that’s somewhere in-between.

Actually, all three charts show the same performance record, they just use different scales and proportions. To realize they all present the
The Scale Up the Left
(Count per Minute)

We need to be very careful in selecting a chart to use as a standard. The most common type of chart uses what Lindsley calls "add-subtract" or "equal-interval" scales. An example is shown on the right.

It's called an "add-subtract" chart because adding or subtracting the same number anywhere on the vertical ("count per minute") scale shows a change that looks the same size. For example, a change from a count of 200 to 250 per minute (a "plus 50" change) looks the same size as a change from 50 to 100 (also a "plus 50") change.

The scale up the left of the chart shown here goes from zero to a frequency of 400 per minute — a nice range for showing the progress of a learner’s "words read silently." Unfortunately, that same scale cramps all of the learner’s "out of seat" frequencies into a space so low on the chart that we can't see any of the changes that are occurring in that behavior.
If we adjust the size of the scale up the left of the chart so we can clearly see changes in “out of seat,” it would take a very big chart to show “silent reading” behavior on the same scale (see chart “B”). A standard chart with this sort of scale simply won’t work for a wide range of behaviors.

Fortunately, there’s another type of scale that works quite well.

Figure “C” uses a “ratio” or “times-divide” scale.

On this type of scale, multiplying or dividing by the same factor will produce changes that look the same size. For example, going from 10 to 50 (a “times-5” or “x5” change) looks the same as going from 1 to 5 (also a x5 change).

A times-divide scale allows us to see the patterns of change in both behaviors—high frequency reading and low frequency out-of-seat—very clearly.

This is the scale used on the Standard Celeration Chart.
The **highest frequency** on the scale represents a count of “1000 per minute.”

The “5-line” in each cycle is a little darker than the other horizontal lines so finding the middle of each cycle is easy.

The scale is divided into 6 “cycles” (and a little bit more). Each cycle represents a x10 (“times 10”) change in frequency (e.g., 1 x 10 = 10, 10 x 10 = 100).

The **lowest frequency** on the scale represents a count of “0.000695” or “1 in 1440 minutes” = 1 in 24 hours.

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**The Standard Frequency Scale**

The scale that runs up the left of the chart indicates the “frequency” of the behavior being charted — the average number of times the behavior occurs for each minute of observation.

**Frequency = Counting Time in Minutes**

The numbers on the left of the frequency scale (0.001, 0.01, 1, 10, 100, 1000) indicate the value of the first line in each cycle, and the value by which you count to get each of the other lines in that cycle.

As Michael Maloney says, “The numbers at the left that start with a one tell you what to count by and what to count from.” It’s not very good grammar, but it helps us to remember!

Overall, the standard chart’s frequency scale allows you to chart behaviors that occur as infrequently as once in 24 hours, or as quickly as 1000 times each minute — virtually the entire range of human performances you’re likely to see.
The Frequency Scale is Symmetric

Trying to remember what the “fractional” values (e.g., “0.01,” “0.1”) of the frequency scale mean is simplified because the scale up the left is symmetric. Using the “1” line of the chart as a starting point:

3 cycles up from the “1” line of the chart is 1000 per 1 minute, and 3 cycles down from the “1” line is 1 per 1000 minutes;

2 cycles up is 100 per 1 minute, 2 cycles down is 1 per 100 minutes; etc.

A “counting floor” scale on the right of the chart indicates some convenient assessment times. We’ll talk more about “floors” later in this book.
**Equal Bounce: A Bonus**

The main reason for the use of a times-divide scale is to allow us to see the ups-and-downs of all sorts of behaviors clearly — behaviors that happen hundred's of times each minute or only a few times each day — without having to change our chart.

As it turns out, though, there's a bonus with a times-divide scale. Most “natural” phenomena change by constant ratios, not by adding or subtracting some constant value. Looking back at the add/subtract charts on pages 4 & 5, for example, it's not only difficult to see both behaviors at once, the “bounce” or daily variability of the behaviors also looks very different as we move up or down that scale. On the ratio chart shown on page 5, the daily ups-and-downs of the two behaviors look very much alike, even though one has a high overall frequency and the other has a low frequency. Other examples are shown at the right.

Consistency in how the “bounce” in behavior is shown is a very important feature of the standard chart.

Behaviors of greatly different frequencies can all be seen clearly; and their daily bounce looks roughly the same, regardless of how or low they are on the chart — even the Dow Jones Average!

- **Dow Jones Average**
  1965 - 1972

- **John** — steps taken on a balance beam

- **Patsy** — see/say c-(short vowel)-
  c words

- **Paul** — points politely for food at lunch

- **Dale** — turning & talking w/o permission

- **Don** — cigarettes smoked

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**Counting Record Floors**

- MIN HRS
  - 1
  - 2
  - 5
  - 10
  - 20
  - 50
  - 100
  - 200
  - 500
  - 1000
  - 16
  - 8
  - 4
  - 2
  - 1

**Successive Calendar Days**

- 0
  - 10
  - 20
  - 30
  - 40
  - 50
  - 60
  - 70
  - 80
  - 90
  - 100
  - 110
  - 120
  - 130
  - 140

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**Behavior Chart Details**

- **Supervisor**
- **Advisor**
- **Manager**
- **Behavior**
- **Age**
- **Label**
- **Depositor**
- **Agency**
- **Timer**
- **Counter**
- **Charter**
- **Counted**
**Calendar Coordination:** The dates on all the charts in a classroom line-up. The first day-line of the charts used during the first half of the school year is always set to equal the first Sunday in September before the first day of school. That is usually the first Sunday in September just before Labor Day, but it could differ across schools. Charts for the second half of the school year begin with the date where the first charts end. That way it will be easy to see at a glance when different programs began and to compare programs by stacking charts on top of one another. Notice that dates are recorded from the smallest unit to the largest — day, month, year. That’s the most common “international” practice. Lindsley and others recommend using 2 or 3 letter abbreviations for the months to avoid confusion.

**The Scale Along the Bottom & Top:**

**Calendar Days & Calendar Weeks**

- Sundays are dark, thicker vertical lines.
- **Calendar Days:** Each day of the week has its own vertical line.
  - Monday
  - Tuesday
  - Wednesday
  - Thursday
  - Friday
  - Saturday
  - Just like a calendar, there’s space for every day of the week, each week of the month, for about 5 months. That makes it easy to tell exactly when assessments were conducted, and to evaluate the effects of breaks and holidays.

- There’s enough room to chart almost half of a school year on each chart.

**Successive Calendar Days**

- **COUNT PER MINUTE**
  - Little letters along the top of the first week serve as reminders of which lines go with which days.
Charting Frequencies

Since each possible frequency and each possible day has a particular spot on the Standard Celeration Chart, it’s easy to find the place to plot a learner’s performance for each assessment. Here are a few examples:

**On Friday, October 5th,**
Sue made 9 computation errors in a 2 minute assessment (9 errors ÷ 2 minutes = 4.5 errors/minute).

**On Tuesday, December 4th,**
John read 300 words per minute.

**On Wednesday, December 5th,**
Juan initiated communications with his peers 3 times in a 50 minute free-play period (3 corrects ÷ 50 minutes ≈ 0.06 per minute).

**On Monday, December 17th,**
Owen dropped his overhead marker on the floor 2 times during a 170 minute lecture (2 ÷ 170 ≈ 0.012 per minute).

If a frequency doesn’t fall precisely on one of the chart’s lines, just place the dot or x between the two lines that come closest. For example, “15” would be placed about halfway between the “10” and “20” lines of the chart; “1.2” would be placed just a little bit above the “1” line; and “0.095” would be placed just below the “0.10” line of the chart.
The Program Team & Targets

Space is provided at the bottom of the chart to identify the people working on the program and the behaviors targeted for change. Note: any one person could serve many purposes on a program, so might be listed more than once at the bottom of the chart. The specific information for which space is provided differs a little from one version of the chart to another, but generally includes the following:

**Supervisor:** The “administrative head” of the program (e.g., the school principal). If the supervisor does not review the chart at least periodically (e.g., monthly), this space should probably be left blank.

**Advisor:** A person who provides specific advice to the program manager. If the advisor does not review the chart frequently (e.g., weekly), this space should probably be left blank.

**Manager:** The person most responsible for making daily program decisions (note: the behaver can serve as her own program manager).

**Depositor:** The person who takes responsibility for sharing the program chart (e.g., by posting it in a public place or sending it to a program “archive”). It is generally this person who would be contacted first if you wanted to know more about the program.

**Agency:** The “organization” in which the program was conducted (usually a school & district name).

**Timer:** The person who keeps track of the time over which the behavior is counted.

**Counter:** The person who counts the behavior.

**Behaver:** The person who’s behavior is being charted.

**Age:** The behaver’s age.

**Label:** Any short label that is useful in describing the behaver (e.g., school grade, disability category, relationship to manager).

**Charter:** The person who charts the behavior.

**Counted:** A brief description of the behaviors being charted. Dots, x’s, or arrows are sometimes used to identify whether a behavior is an acceleration or a deceleration target (e.g., “● = puts on coat,” “x = receives extra cues or prompts”).

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### Successive Calendar Days

<table>
<thead>
<tr>
<th>Time</th>
<th>0</th>
<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
<th>50</th>
<th>60</th>
<th>70</th>
<th>80</th>
<th>90</th>
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<th>110</th>
<th>120</th>
<th>130</th>
<th>140</th>
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</thead>
<tbody>
<tr>
<td><strong>Supervisor</strong></td>
<td>Makes the program “public”</td>
<td></td>
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<td></td>
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<tr>
<td><strong>Advisor</strong></td>
<td>Advises the Manager</td>
<td></td>
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<tr>
<td><strong>Manager</strong></td>
<td>Manages the charted program</td>
<td></td>
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<tr>
<td><strong>Person who keeps track of the counting period</strong></td>
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<tr>
<td><strong>Person who counts the behavior</strong></td>
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</tr>
<tr>
<td><strong>Behaver</strong></td>
<td>Person who charts the behavior</td>
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</tr>
<tr>
<td><strong>Behavior’s age</strong></td>
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</tr>
<tr>
<td><strong>Label</strong></td>
<td>Descriptive label for behaver</td>
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### Counting Record Floors

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<th>10</th>
<th>20</th>
<th>30</th>
<th>40</th>
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<th>60</th>
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<th>110</th>
<th>120</th>
<th>130</th>
<th>140</th>
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</thead>
<tbody>
<tr>
<td><strong>MIN</strong></td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
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<td>10</td>
<td>11</td>
<td>12</td>
<td>13</td>
<td>14</td>
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<tr>
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<td>1</td>
<td>2</td>
<td>3</td>
<td>4</td>
<td>5</td>
<td>6</td>
<td>7</td>
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### Count Per Minute

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<th>40</th>
<th>50</th>
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<tr>
<td><strong>1</strong></td>
<td>0</td>
<td>1</td>
<td>2</td>
<td>3</td>
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</tr>
<tr>
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<td>2</td>
<td>3</td>
<td>4</td>
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</tbody>
</table>

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### Note:

- The chart is designed to be used for tracking the frequency and duration of behaviors. It allows for the identification of patterns and trends in the data.
- The chart can be adapted to fit different needs by adjusting the labels and categories to match the specific program or context.
- The chart is intended to be used as a tool for improving the effectiveness of interventions by providing a clear visual representation of the behaviors being monitored.
Is It Supposed to Go Up or Down?

Standard symbols are used to chart behavior frequencies so we can tell at a glance how we want the behavior frequency to change.

Chart deceleration targets (behaviors that should decrease in frequency) with X's. If two or more deceleration targets are put on the same chart, try to chart them all with "sharp" symbols (e.g., X's and triangles Δ).

A dot or an X doesn't necessarily indicate how a behavior is changing, only how we want the behavior to change. In the program shown above, for example, the correct frequencies generally changed in the desired direction; the deceleration target was going in the wrong direction at the beginning of the program, but then turned the way we wanted.

Connecting the Dots & X's

Lines are drawn from one dot or X to the next across successive practices; gaps are left in the line whenever there was a break in regular practices.

Ignore Days are days on which the skill might have been practiced under conditions similar to those used during assessment, but for some reason was not assessed or the assessment data were lost. Connecting lines are drawn across ignore days from the last charted frequency to the next charted frequency.

If there are one or more no chance days (see below) and one or more ignore days between the last charted frequency and the next charted frequency, the connecting line is broken when it crosses the no chance days.

No Chance Days are days on which the behavior had no chance to practice the skill under conditions resembling those used during regular assessments. Those days are left blank on the chart — no line is drawn across no chance days.

Charted Days are days on which the behavior was assessed in the usual fashion and the results are recorded on the standard chart. Successive charted days (i.e., series of charted days without intervening no chance days) are connected with one another by lines.

Breaks in the connecting lines allows us to see at a glance whether breaks in practice effect learning. Here, for example, the learner fails to improve over the no-chance days, but does improve over the ignore day (i.e., a day when practice might have occurred but for some reason wasn't assessed or charted).
The Record Floor on a chart represents the **lowest possible non-zero result of an assessment**. It serves as a reminder of what results are possible, and what results are impossible, given the way we measure the behavior's performance — we can see performances that fall on or above the record floor, but if actual performances fall below the record floor, they’re too low for us to detect with our assessments.

**Record Floor** = \( \frac{1}{\text{Counting Time in Minutes}} \)

The record floor also tells us the **least amount of change** we can measure in performance. If the record floor is “1,” for example, we can measure changes in frequencies as small as \( \pm 1 \); if the record floor were “0.1,” we could measure changes as small as \( \pm 0.1 \).

**If the record floor remains constant** from day-to-day, just chart it as a long line across the chart, broken across days when assessments weren’t conducted. Here, a constant record floor is based on an assessment time of 1-minute, so the floor is \( (\frac{1}{60} \text{ minutes}) = 1 \), and a line is drawn at that level across the chart.

To calculate the value of the record floor, simply apply the usual formula for frequency, but use a count of “1” (that is, the lowest possible non-zero behavior count):

Frequencies based on a count of zero are often charted as little question marks below the floor. That reminds us that we really don’t know what the frequency might be, only that it’s less than what we can measure. Don’t worry about discriminating between correct and error frequencies. If both are below the floor, just chart two question-marks; if only one is below the floor, chart one question mark, and it’s got to be whichever frequency is not charted on or above the floor. In this case, the errors slipped below the floor; the correct frequency of “1” is noted as a dot on the record floor.

*If the record floor changes* from day-to-day, chart each floor separately as a short dashed-line for each day.

In the performance record shown on the left, the assessment time is determined by how long the behavior takes to put on his coat. At first it takes more than a minute to finish that task; by the end of the program, it takes about 30 seconds, so the record floor for the last day is \( (\frac{1}{30} \text{ seconds}) = 1/30 \text{ minutes}\) = 2.

With this sort of “**single movement frequency**” (that is, a frequency based on how long it takes to complete a single task), changes in the record floor reflect learner progress.
The Record Ceiling on a chart represents the **highest possible result of an assessment**. Like the record floor, it serves as a reminder of what results are possible, and what results are impossible, given the way we measure the behavior's performance — we can see performances that fall on or below the record ceiling, but if actual performances fall above the record ceiling, we can't tell how high they might be, and can only record them as being at least as high as the ceiling.

If the record ceiling changes from day-to-day, chart each ceiling separately as a short dashed-line for each day.

In the performance record shown here, Karin is counting the number of times Ilene complies with simple requests (e.g., go to the table, “take out your crayons”) over the course of a 100 minute period. At first, she only tries to make 10 requests during each period, so she has a constant record ceiling of (10/100 =) 0.1/minute. Later she decides to make as many requests as seem reasonable during any given period, so she begins to have a variable record ceiling. On most days that results in more than 10 requests, so the record ceiling is higher than before, but on Monday of the last week she only made 8 requests, so the record ceiling is lower.

Generally, it seems that higher record ceilings have helped Ilene to become more compliant, or at least reveal higher levels of compliance.

**NOTE:** some people have suggested alternative methods for charting ceilings and floors. Consult the references in the back for details.
The **performance aim** for your project is indicated by a little **aim star** drawn at the intersection of the **aim-date** (the date by which you want to reach your aim) and the **aim-frequency** (the frequency you want to achieve for the behavior).

**The Aim-Frequency** is indicated by the cross-bar of the aim-star, in this case, 40 correct movements per minute.

**The Aim-Date** is indicated by the day on which the “point” of the aim-star is placed, in this case, on the Friday 5 weeks after the beginning of the program.

**Aim-Stars for Deceleration Targets Point Down**, like the aim-star for these data. In this case, the performance aim is to decelerate errors to a point below the record floor (indicated by the dashed line); where the record floor is set at a value of “2.” In other words, we want no errors.

If **performance aims are set for both correct and error frequencies**, two aim stars will be required — one pointing “up” and the other pointing “down.” Both aim stars can be put on the same day (indicating that you want to reach both aims at the same time), or they can be placed on different days (indicating you want to reach one of the aims before the other). **If you don’t know when you should reach the aim**, you can place the aim-star on a day before the project actually begins. Folks will then be able to determine what frequency you want to reach, but not the specific date by which you want to reach it.

**NOTE:** some people have suggested different conventions for the placement of aim-stars. Consult the references at the back of this book for details.
Brief descriptions of program changes should be provided directly on the chart. Don’t just say something like “phase 1.” Provide at least a few descriptive words.

Assessment before practice; allow to skip practice if daily aim reached

Add three colors (total=6); use flash cards instead of color chart

Aim Star shows where you want to go.

Provide Notes to explain any unusual event

Describing the Program

Behavior: Christina, age 4, Down Syndrome
Manager: Carolyn Kaiser
Movement: Points to sample of color named by manager

Program Change Lines are drawn to indicate when changes are made in the program. They are always drawn 1/2 day before the first day in the new program, making it clear when we would expect to see a change in performance. Don’t connect successive dots or x’s across program change lines. NOTE: program change lines have also been called event or condition change lines.

Don’t connect successive dots or x’s across program change lines.
Summary of Charting Conventions

Pre-primer, 1st Grade

NOTES
help describe what’s happening

DECELERATION TARGETS (errors)
are charted as X’s

ACCELERATION TARGETS (corrects)
are charted as dots

RECORD FLOOR
indicates the lowest possible non-zero frequency (= 1/time)

NO CHANCE DAYS
(days when the behavior was not assessed) are left blank on the chart

RECORD CEILING
indicates the highest possible frequency (total possible count ÷ time)

AIM STARS
indicate the frequency aims and aim dates

NO COUNT FREQUENCIES
(frequencies based on a count of zero) are usually charted with question marks below the record floor

PROGRAM CHANGE LINES
(with notes) indicate when and how the program was changed (don’t connect dots or x’s across phase change lines)

Set goal, praise for improvement

Flash card error drill

1st date = 1st Sunday in September before Labor Day

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S.S. Lake Washington Schools R.M. R.M.
Lisa 7 L.D.
Lisa Say Dolch Words

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The following books provide additional information about the Standard Celeration Chart and charting techniques. They are only available through “nontraditional sources,” but are well worth the effort to obtain.


This is an updated version of the first **Standard Charting Book**. It presents all the basic conventions for charting in an easy-to-understand manner, including the use of a version of the frequency/celeration finder that is somewhat different in construction from the one discussed in the companion to this book (the **Finder Book**, by Owen White, see below).


This book provides far more information about the details of the chart and related information.

Several of the charting conventions suggested in **Standard Celeration Charting** differ slightly from those presented in this book, especially as pertaining to the record floor, record ceiling, and aim-star. Numerous “practice sheets” are provided for developing fluency in charting skills.


This book provides an overview of a simple “finder” useful for charting frequencies, floors, and ceilings; for determining the slopes of celeration lines; and more. Templates for reproducing the finder are also provided on the class web site.