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The Skillathon: Program Evaluation Can Be Fun!

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The Skillathon: Program Evaluation Can Be Fun!

Abstract

Extension professionals continue to look for innovative methods to evaluate programs, especially tools that capture improvements in skills but are not burdensome to participants. This article describes how an often-used educational activity, the skillathon, can be adapted easily for use as an assessment tool well suited for documenting skill changes. The authors used this technique successfully for 3 years with up to 35 special needs youth per session to assess skills learned in the RCE Youth Farmstand Program. Participants describe the skillathon assessment as "fun" and one of the "best" parts of the program!

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Introduction

Program evaluation continues to be a popular topic in this age of accountability. The good news is that the discussion has transitioned from "why" to "how." Extension educators are becoming comfortable using paper and pencil assessments, but oftentimes these instruments do not capture changes in participants' skills. A skillathon can be used as a pre/post assessment tool and is ideal for documenting changes in skills that cannot otherwise be measured using traditional methods. It is especially useful with low literacy and special needs audiences.

The Skillathon as Educational Method

Skillathons are used often as experiential learning tools. A well-designed skillathon provides participants with opportunities to increase subject matter knowledge and skills. They are easy to implement, and participants have fun while learning!

A skillathon is simply a set of individual learning stations that each host a specific activity to complete or problem to solve. Participants learn as they use discovery and reflection to accomplish the task. Skillathons are often designed for several participants to work together. This enhances team building and reinforces communication and cooperative decision-making while increasing knowledge. (See Rusk, Egger, Machtmes, & Richert, 2002; Rusk & Machtmes, 2002 for examples. See the *4H 101 Handbook* for information about conducting educational skillathons.)

The Skillathon as Assessment Tool

The skillathon can also be used as an assessment tool. Properly executed, a skillathon provides excellent program evaluation data, gathered in an exciting setting that minimizes "test" anxiety. This tool can virtually eliminate literacy difficulties that often plague paper and pencil assessments.

Like an educational skillathon, an assessment skillathon is a set of individual stations with a specific activity for participants to complete or problem to solve. The station evaluator ensures participants understand the instructions, and scores individuals based upon predetermined guidelines.

An assessment skillathon is "administered" twice, once at the beginning and again at the end of the program. The first administration (pre-test) provides a baseline measure of skills participants have before a program. The second administration (post-test) will document increases (think positively!) in the same skills. The pre/post data are then compared to reveal changes that may be attributed to program participation.

How to Design an Assessment Skillathon

It is not difficult to implement a fun-filled skillathon. Preparation is critical, however, if the purpose of the skillathon is to collect evaluation data. The following resources are required (examples from RCE Youth Farmstand Program):

1. Program objectives. Evaluations cannot be planned without clearly stated objectives. Objectives should articulate skills participants will gain from the program.
2. Station tasks. Activities at each station should be based upon skills identified in the program objectives.
3. Time. Adequate time is needed for two (2) "administrations" (pre-test and post-test). The length of time each skillathon takes depends upon participants, number of stations, available facilities and personnel, etc.
4. Fun, fun, fun. Incorporate fun elements into the assessment design. This is particularly important when dealing with audiences who may be fearful of terms such as "test" and "evaluation."
5. Station instructions. Clearly written instructions and evaluation criteria (Figure 1) should be available for each station evaluator. Information should include:
 - Supply list
 - Situation description
 - Task description
 - Scoring criteria

Scoring must be easy to understand and should not require a calculator! Participants may appreciate an index card adhered to the table with simple instructions (Figure 2).

Figure 1.
Sample Station Instruction Sheet

Information and Score Sheet

Station 1: Produce Scale

Evaluator: _____ *Date:* _____

Station Supplies: This station requires the following items.

- ◆ Produce scale. Be sure the scale reads "0" when empty!
- ◆ Pencil
- ◆ Stickers for participant tracking cards
- ◆ ¼ pound package peas; ½ pound package peppers; ¾ pound package green beans; 1 pound package cherries

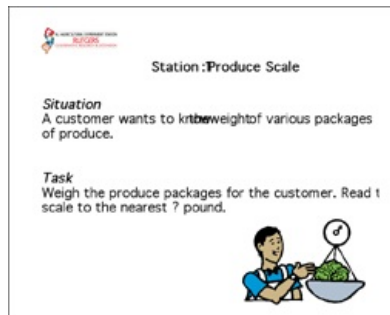
Situation: A customer wants to know how much her produce weighs.

Task: Weigh the produce packages for the customer. Read the scale to the nearest ¼ pound.

Scoring: ✓ if participant reads the scale correctly. Score = 1 point for each ✓.

Name	Peas ¼ pound	Peppers ½ pound	Green Beans ¾ pound	Cherries 1 pound	Score
Participant 1					
Participant 2					
Participant 3					
Participant 4					

Figure 2.
Sample Participant Instruction Card



6. *Participant scoring and tracking system.* Participants and scores must be tracked accurately using a system that ensures:

- Participant scores are recorded accurately at each station (Figure 1).
- Participants complete each station (Figure 3).
- All scores are recorded in a Master List for ease of analysis (Figure 4).

Figure 3.
Sample Participant Station Tracking Card



Figure 4.
Sample Master Score Sheet

Skillathon Master Score Sheet							
Date: _____							
Name	Produce Scale 8 max	Produce ID 26 max	Bag Order 3 max	Cash Register 9 max	Change Vouchers 5 max	Identify Terms 3 max	Total Score (54 max)
Participant 1							
Participant 2							
Participant 3							
Participant 4							

7. *Trained station evaluators.* The importance of properly trained personnel cannot be over-emphasized. Station evaluators must understand the activity and evaluation and scoring criteria. Evaluators must know how to assist (or *not*) participants. It is *strongly* suggested the same individual serve as station evaluator for both pre-test and post-test skillathons to ensure scoring continuity.
8. *Station supplies.* Items will be needed to complete station tasks. The Information and Score Sheet (Figure 1) should include a list of required items. A "pilot" test of each activity is strongly suggested to ensure that all required items are available in suitable quantities.

Data Management and Analysis

Scores should be transferred from the Information and Score Sheets (Figure 1) to a Master Score Sheet (Figure 4) immediately after each skillathon. The data should then be entered into a spreadsheet or statistical software analysis program. There will be two (2) sets of identical variables (pre-test, post-test) for each participant. The easiest way to differentiate the two sets of variables is with descriptive variable labels, for example, scale1 (pre-test) and scale2 (post-test), register1 and register2, etc.

Once the data are entered and checked for accuracy, the best way to reveal whether *statistically significant* differences exist between pre-test and post-test scores is to use a paired T-test analysis. This test compares the averages of the pre-test and post-test variables. It is beyond the scope of this article to provide detailed instructions on data analysis, but several easy to understand books are available commercially, and many universities have staff to help with data analyses.

When to Use an Assessment Skillathon

A skillathon assessment can be used for programs in all disciplines and with a variety of audiences. Figure 5 provides general guidelines to help you decide if a skillathon would be appropriate for your program.

Figure 5.
When to Use an Assessment Skillathon

Will an Assessment Skillathon Work for my Program?			
Scenarios	Good Choice	Probably Not	Use Caution
<i>Program Duration</i>			
4 hours or less		X	
5 hours to 2 days			• Do not sacrifice instructional time in favor of a skillathon
3 days or longer	X		
<i>Audience</i>			
Children under 6		X	
Children 6-10			• Extra staff may be needed. • Provide alternate activities for children awaiting their turns.
Youth 11-18	X		
Adults	X		
Elderly	X		• Be aware of possible visual, hearing or mobility difficulties
Low literacy	X		
Special needs adults/youth (mild behavioral or cognitive difficulties)			• Extra staff may be needed. • Provide alternate activities for participants awaiting their turns.

The size of the group should also be considered. Large groups should be divided, with perhaps one group engaged in a separate learning experience while the other group participates in the skillathon.

Conclusion

Extension educators have used educational (and fun!) skillathons successfully for decades. The skillathon also lends itself readily for use as an evaluation instrument. An assessment skillathon may be the perfect tool for Extension professionals in search of innovative methods for capturing changes in participants' skills. Who says evaluation has to be boring?

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