

Verify Knowledge Configuration

Introduction

The new feature will let the system verify that a person has knowledge of the currently open nodes within an objective. This can be particularly useful if a student is repeating a course, and as a result they have most of the nodes complete. This process requires the student to verify their knowledge before they can gain credit for that work.

Verify knowledge can be an automatic assignment where the system recognizes prior knowledge or manual assignment where the instructor can assign Verify Knowledge for an objective if they feel it is an appropriate step.

In conjunction with this feature a new KC variable is available for the grading calculation. The new variable (KCA) will provide an adjusted KC value that only includes nodes that are completed and have an ability value of at least a new KCA threshold value. If a knowledge verification is required but is outstanding, then the KCA value will be 0.

The document provides steps to configure Verify Knowledge at a product level. Once the configuration has been complete on the base product any new versions created from the base will inherit the Verify Knowledge settings.

Accessing the product

- Click on the *Main user dropdown > Product data > Products*.
- Locate the base product and click on *View*.

In the product definition page, go to the *More advance details* area.

- Scroll down to *Should Verify knowledge be required when prior knowledge is detected (used if no value in objective)?* . This setting allows the system to automatically prompt Verify Knowledge when the system detects students (e.g. repeats) that have previously gone through the objective.
- Using the drop down and select *Yes*.
- In the *You can specify a minimum knowledge state threshold that is considered complete for the KCA value used in grading expressions (used if no value in objective)* area specify a percentage value. This is the mastery/ability value on the node. This value determines the ability value the student must achieve and maintain on the node for it to be considered covered and complete.

Should Verify knowledge be required when prior knowledge is detected (used if no value in objective)? <input type="button" value="Yes"/>
You can specify a minimum knowledge state threshold that is considered complete for the KCA value used in grading expressions (used if no value in objective) <input type="text" value="40"/> %

- In the *Grading and scoring details* the new value of KCA (custom value) will need to be accommodated in the grading expression. The following will need to be updated.
 - a. **Factor to show:** Untick *Knowledge cover (KC)* and tick *Custom value 1*.
 - b. **Expression for score:** Change the reference of the “KC” factor to “KCA”
 - c. **Custom value 1:** A label for KCA needs to be provided. This label will appear in the grading table and will be viewed by the instructor (e.g. Node of Sufficient Standard)
 - i. In the *expression* field enter *StrAdd(KCA, "%")*

▼ Grading and scoring details

Factors to show

Knowledge state (KS)
 Knowledge covered (KC)
 Number: determine knowledge (NumDK)

Number: practice (NumPract)
 Number: revise (NumRevise)
 Time spent so far (NumHours)

Total activities (TN)
 Custom value 1
 Custom value 2

Expression for score

```
if(KCA < 0, 0.0, KCA) * 0.5 + if(KS < 0, 0.0, KS) * 0.5
```

Description for students

Hours after due date to submit

Comment expression

Custom value 1

Label

Data bank entry

Expression

Aggregation

Track value (must be a number)

Allowing instructors to prompt verify knowledge

Instructors have the ability to prompt a student to complete verify knowledge. This can be controlled in the *Feature access* area of the product definition page.

If this should be enabled,

- Click on *More* and expand *Feature Access* area.
- Select *Access to Verify Knowledge*.

▼ Feature access

Access to search functionality
 Access to learning material
 Access to Practice functionality
 Access to Determine knowledge
 Access to Try

Access to Verify knowledge
 Access to assessments
 Access to statistics
 Access to Learning Log
 Access to collaborative elements

Deny access by default to all users (then apply settings)
 Allow students access to students from other instances of this product

- Click on *Save changes*.