

A Non-Profit Organization
Dedicated to the
Education of Youth

Academic Standards and Benchmarks

Resource Alignment Search and Retrieval Use Cases

Data And Metadata Relating To Academic Standards And Benchmarks

Benchmarks as Controlled Vocabulary – A managed master list of the text of all the state standards and a uniquely assigned identifying number for each

Benchmark ID = c0b645edf4 {e.g. permanently assigned identifier}

Benchmark Text = “4.7.7 Model the Pythagorean Theorem; solve for the hypotenuse using the theorem”

Identification Metadata – State-issued facts tightly coupled to the Benchmark

Document = 2001 Nevada Mathematics Content Standards for Kindergarten and Grades 1 through 8 and 12

Adoption Year = 2001

State = Nevada

Grade = 7

Position in State Standards Hierarchy =

Math

|_____Spatial Relationships and Geometry

|_____Content Standard 4.0

|_____Pythagorean Theorem

|_____ {Benchmark text value}

Descriptive Classification Metadata (Opinion/Derived/Inferred) about the Benchmark itself

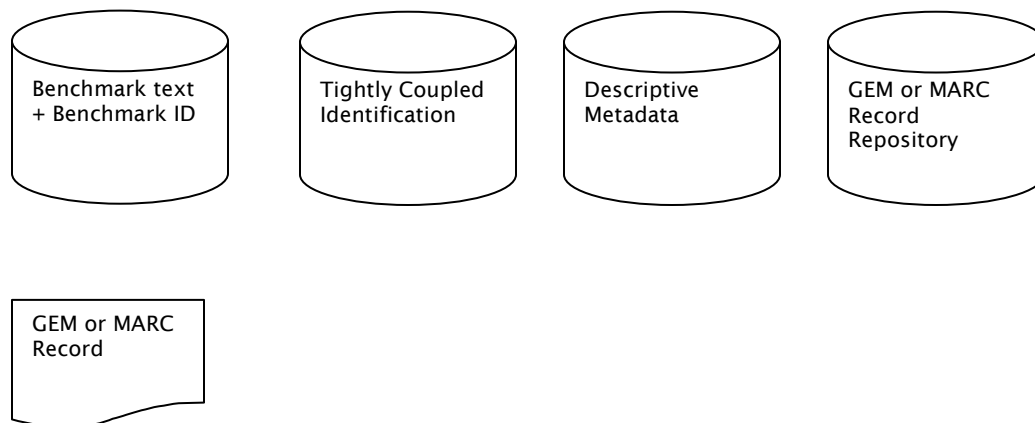
Subject
Key Words
McREL Classification Type
Implied Lexile (reading level)
Gardner's Multiple Intelligence Classification
Compendix Classification Number
Dewey Decimal Number (?)
LCSH (?)
Etc.

Data And Metadata Relating To Educational Resources

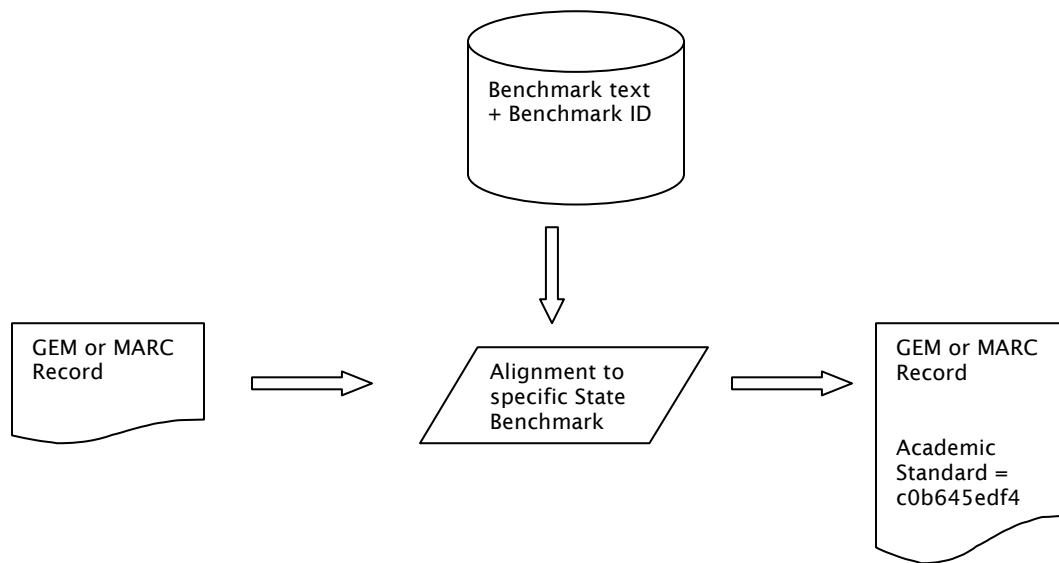
Cataloging of a resource including reference to one or more academic standards or benchmarks – Pseudo Representation of GEM or MARC record:

Title = My Hypotenuse Math Lesson
Author = John Smith
URL = <http://www.mylesson.com/hypotenuse>
Copyright Date = 2002
Grade = 5-9
Subject = Math
Abstract =
Academic Standard = c0b645edf4
Academic Standard Authority = John Smith
Or,
Academic Standard
Academic Standard State = Nevada
Academic Standard Document = "2001"
Academic Standard Grade Level = 7
Academic Standard Text = "4.7.7 Model the Pythagorean..."
Etc.

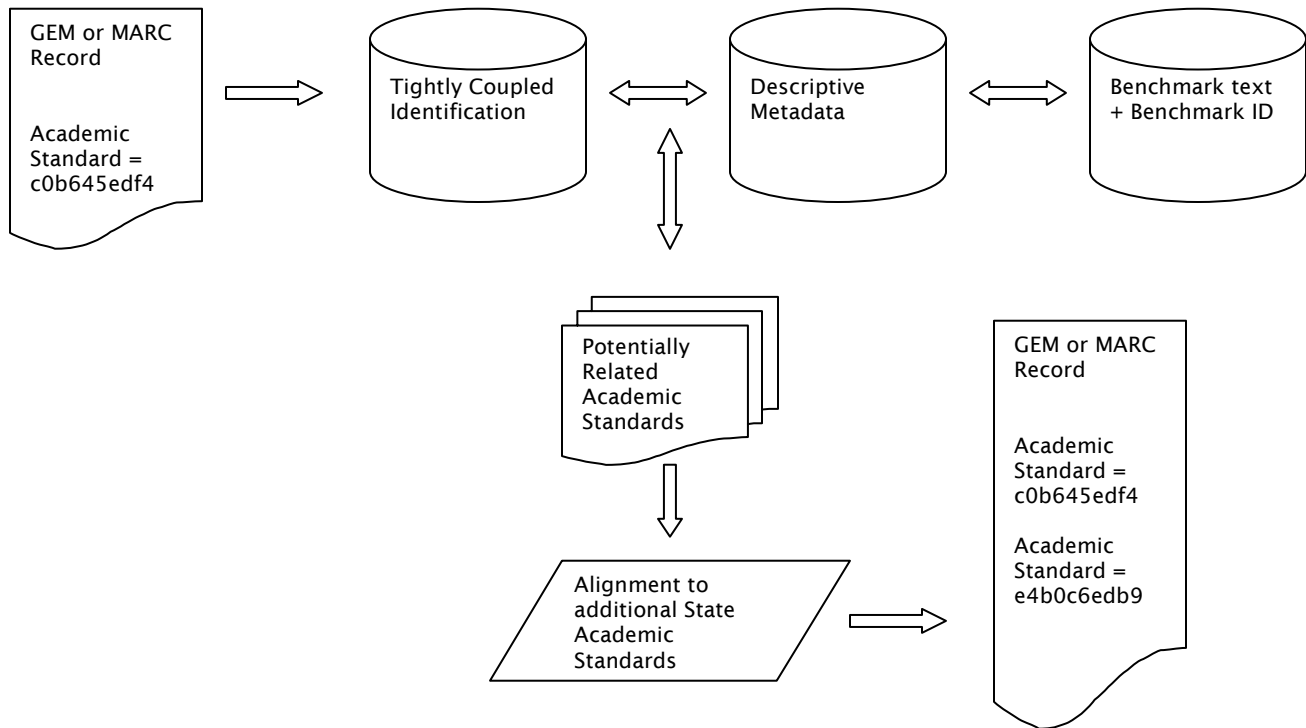
Information Repositories



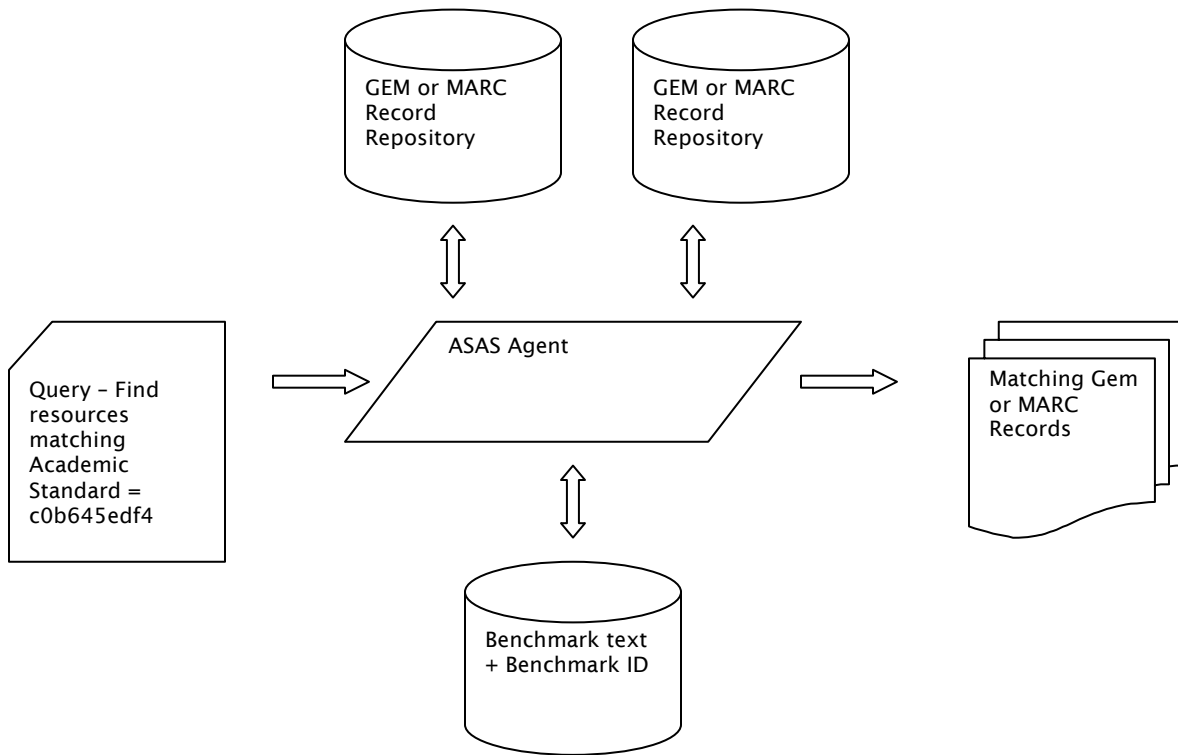
Use Case 1 – Create Gem or MARC Catalog Record



Use Case 2 -Infer related alignments



Use Case 3 – Using a Cataloging System (e.g. JES & Co.’s Academic Standards and Assessment System) to Locate Matching Resources



Use Case 4 - Using A Cataloging System (e.g. ASAS) to find Related Resources

