Research Topic Question: What are the effects of using virtual manipulatives to teach place value in 2nd grade classrooms?

MATH 1384
Bullock

**Strategic Searching**

Use the following to help guide your group develop a Literature Review Plan. Bring one completed worksheet per group to class on September 11th, for librarian review.

1. Highlight or circle the most important words or phrases in your Research Topic and Questions.
2. Write your basic search string below.

   virtual manipulatives and place value and second grade

3. Consider what other parameters should be set to return the most relevant results. List them here.

   current dates, peer reviewed articles, full text of article

4. Identify what databases or search tools you plan to use.

   a. Education Source _____ via _____

   b. ERIC _____ via _____

   c. Google Scholar _____ via _____

5. Try your search strategy (basic search string + additional parameters) in at least one database or search tool. Use the space below to reflect on how it went. Be sure to include any difficulties you encounter and questions you have.

   I used Education Source + ERIC and typed in my string. I came up with two results. After I set the parameter for full text, I only had one result. Instead of virtual manipulatives, I just wrote manipulatives. With full text and scholarly reviewed articles set, I came up with seven results.

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**Strategic Searching**

Together with the librarian, Ashley Crane, work through the following.

1. Using the sample research topic below, highlight or circle the most important words or phrases.

> The effect of culture and location on first grade students' cognitive representation of number and understanding of place value.

2. Fill in the expression below using the identified keywords.

location AND / first graders AND / place value

3. Write the expression again as a search string, using the appropriate Boolean Operator (AND, OR, NOT)

location and first graders and place value

This is your search string at its most basic level. It is useable in any database.

"place value" AND "first grade" AND location

google scholar
Edu. source
ERIC

4. Consider what other parameters should be set to return the most relevant results. List them below.

   a. Current dates

   b. peer review articles / full text of article available?

   c. education databases (where are you searching)

less than 20 articles

5. Fill in the blank.

Searching is Strategic exploration.

6. What else should be considered to search effectively?

which is web
look for reference shirt