

FROG MATH:

Predict, Ponder, Play

Teacher's Guide



Session 1

What You Need

For the class:

- 1 copy of the *Frog and Toad Are Friends* book by Arnold Lobel
- 1 light blue felt board—24" x 18"
- 1 piece of white felt—12" x 18"
- 1 piece of black felt—6" x 6"
- 1 hole puncher
- 1 pair scissors
- white glue

For each pair of students:

- 1 collection of 40–50 buttons, as diverse as possible in size, color, shape, number of holes, texture.
- 1 paper cup (or any container large enough to hold 40–50 buttons)
- paper and drawing implements (for 2nd and 3rd grade students only)

Sessions 2

What You Need

For the class:

- felt board (from Session 1)
- black and white felt buttons (from Session 1)
- additional set of colored felt buttons
- 3 large yarn loops (for "Sorting By Size")
- card stock or "sentence strips"
- felt pen
- (optional) 8 small yarn loops (any bright color that contrasts with the color of your felt board)
- (optional) copy of the book, *The Button Box* by Margarete S. Reid

For each pair of students:

- 1 cup of 40–50 buttons (from Session 1)

Session 3

What You Need

For the class:

- graphing grid
- about 50 sheets of white 8 1/2" x 11" card stock, enough to make twenty 4" x 5" graph labels, plus one sheet for each student's Button Template.
- 1 roll of masking tape
- (optional) large "post-its" (instead of card stock graph labels)

For each group of 4–6 students:

- crayons or colored pens
- scissors
- pencils for writing names
- hole puncher(s)

For each student:

- 1 copy of Button Template (master included, page 32)
A Button Template for Kindergarten is on page 30

Session 4

What You Need

For the class:

- a small plastic jar
- 27–99 small plastic frogs (several sources from which to order these are listed on page 71)
- large place value counting board (see “Getting Ready,” #2 for how to make this board from the master on pages 92–93)
- 2–7 clear plastic cups (for teacher to use to count frogs with the large place value board)
- 1 pad of 3" square “post-its”
- dark felt markers
- 3 pounds of large lima beans
- 4 large ziplock bags

For each student:

- card stock place value board (see “Getting Ready,” #3 for how to make these boards from master on page 44)
- 8 small paper cups (for student to use to count beans with the small place value boards)
- large lima beans (a handful from the bag above)
- 1 small empty container, 8 ounce size (to carry the handful of beans back to seat)

Session 5

What You Need

For the class:

- large Frog Pond gameboard (master on pages 94–95)
- 10 large plastic frogs (or buttons, bottle caps, beans, etc.)
- 1 green felt marker or crayon
- 1 blue felt marker or crayon
- 12" x 18" piece of green tagboard or matté board
- rubber cement
- 18 sheets of standard (8 1/2" x 11") paper to duplicate student gameboards, preferably in blue

Optional: To make the extra-large Frog Pond gameboard:

- 26" x 18" piece of green tagboard or matté board
- 24" x 16" sheet of blue construction paper or blue fadeless paper
- 10 paper frogs (duplicated from page 52)
- (optional) laminator or clear contact paper

For each pair of students:

- small Frog Pond gameboard (master on page 53)
- 10 small plastic frogs (or buttons, bottle caps, beans, etc.)
- small paper cups (same as those used in Session 4)

Session 6

What You Need

For the class:

- large gameboard with 6 frogs from pages 96–97 (Part 1)
- large gameboard with 12 frogs from pages 98–99 (Part 2)
- 1 large pair of dice, 2"–5" cubes. Several sources for dice are listed on page 72.
- 12 small plastic frogs or other markers
- 1 pad of "post-its" 2" x 1 1/2"
- 1 set of felt markers
- rubber cement
- 2 pieces of 12" x 18" tagboard or matté board
- 18 sheets of letter size (8 1/2" x 11") paper (or card stock) on which to duplicate the student gameboard with 6 frogs
- 18 sheets of legal size (8 1/2" x 14") paper (or card stock) on which to duplicate the student gameboard with 12 frogs
- (*optional*) laminator or clear contact paper

For each pair of students:

- 1 student gameboard with 6 frogs (Part 1)
- 1 student gameboard with 12 frogs (Part 2)
- 2 dice
- 12 small plastic frogs or other markers
- 1 cup or other container for frogs
- (*optional*) plastic "strawberry" basket