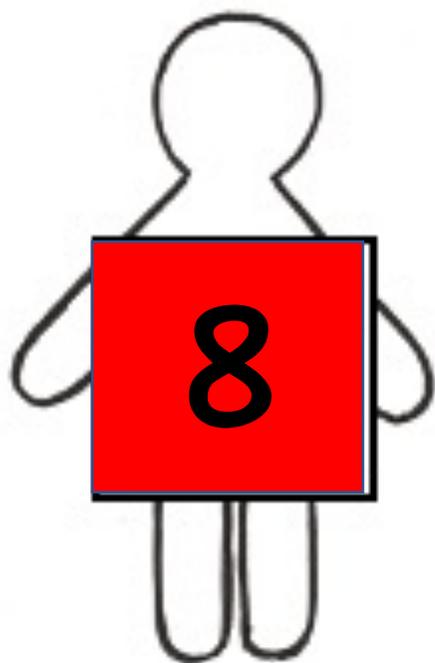


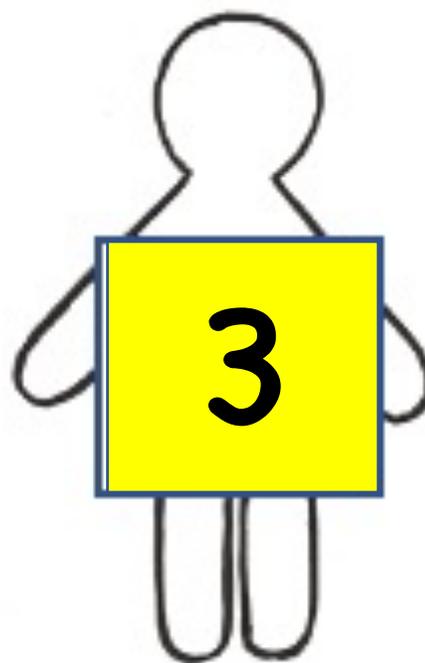
GUS and GABBY

Number Logic

Guessing Game



GUS



GABBY

TEACHER INFORMATION

ABOUT

Gus and Gabby is a number logic game. Students use clues given to guess two numbers.

PREREQUISITES

Students need to know odd and even numbers and basic addition.

Students need to understand the concepts of greater than and less than (i.e., that *greater than 5* excludes the number 5).

Students need to know that the number 10 has two digits.

MATERIALS NEEDED

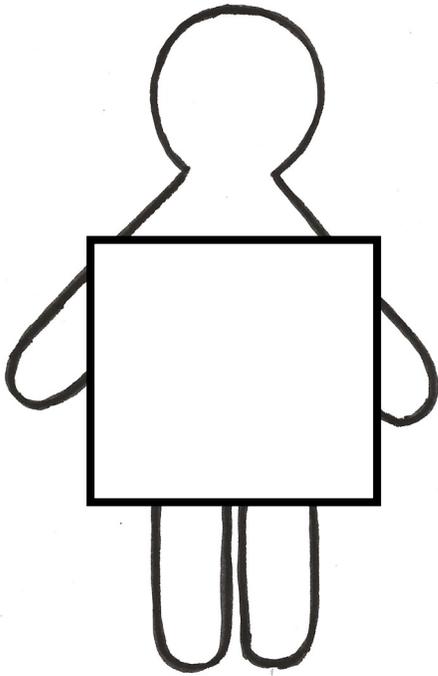
Each student needs:

- a guessing game board - one half-sheet for each student (see p. 3)
- one-inch foam tiles, numbered 1-10 (make your own with [these](#))
- a snack baggy or envelope

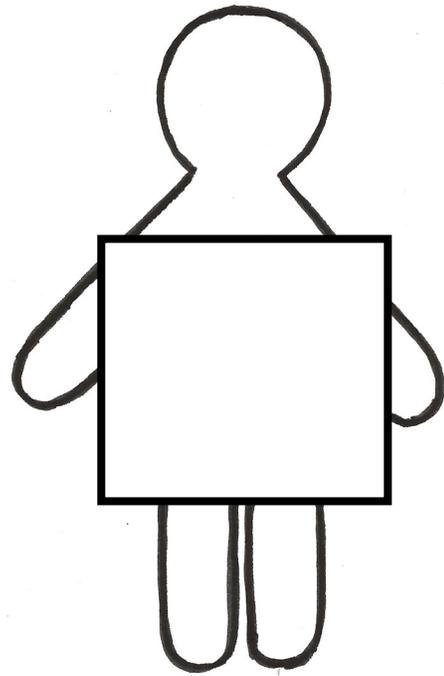
HOW TO

1. Copy the guessing game sheet (see next page) on cardstock. Cut each sheet in half to make two game boards. (Optional: laminate for durability)
2. In each student snack baggy, place ten tiles, numbered 1 – 10.
3. Explain the game: "We're going to play a guessing game. Gus and Gabby each have a number. I'm going to give you clues, and you will choose two tiles from your baggy. Place a tile on each square to show your guesses. At first, you'll have to guess with just a little information. But each time I give a new clue, you will know more, and you can change your guesses."
4. The clues for multiple games can be found on page 4. Students need to see the clues, so you can use [this slide deck](#) to present them. Write the numbers 1 through 10 on your board, and as you read each clue, discuss what numbers would make good guesses and what numbers could be eliminated. To guide students in making their guesses, erase or cross out numbers that can be eliminated. You may want to draw Gus and Gabby and play the game with students. After going through several possibilities, you can say, "Okay, time to guess!"

GUS and GABBY
Guessing Game

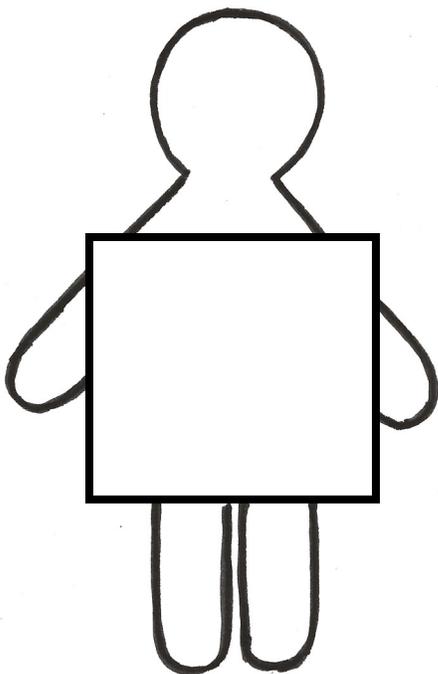


GUS

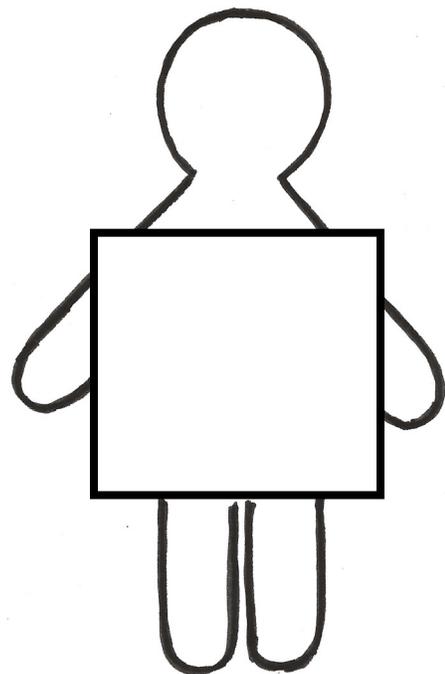


GABBY

GUS and GABBY
Guessing Game



GUS



GABBY

GAME CLUES

GAME 1 CLUES:

1. Both numbers are even.
2. Both numbers are less than 7.
3. The numbers add up to 8. or The sum of the two numbers is 8.
4. Gus's number is higher than Gabby's.

GAME 2 CLUES:

1. The numbers are both greater than 3.
2. One number is even, and the other is odd.
3. Gabby's number has two digits.
4. Gus's number is less than 6.

GAME 3 CLUES:

1. The numbers are both odd.
2. One of the numbers is 3.
3. When the numbers are added together, the total is less than 10.
4. Gus's number is not 1, 2, or 3.

GAME 4 CLUES:

1. Gabby's number is one number higher than Gus's.
2. Both numbers are greater than 4 and less than 9.
3. Gabby's number is even.
4. Gus's number is not 7.

GAME 5 CLUES:

1. Gus's number is greater than 7.
2. Gabby's number is less than 4.
3. Gabby's number is even.
4. Gus's number is odd.

GAME 6 CLUES:

1. Gabby's number is four more than Gus's.
2. Gus's number is less than 5.
3. Gabby's number is not even.
4. Gus's number is greater than 2.

GAME 7 CLUES:

1. One of the numbers has two digits.
2. Gus's number is odd.
3. Gus's number is less than 6.
4. When the numbers are added together, the total is less than a dozen.

GAME 8 CLUES:

1. Both numbers are odd
2. Both numbers can be shown with one hand.
3. Gus's number is greater than Gabby's.
4. Gabby's number is not 1.

GAME 9 CLUES:

1. Gus's number is one more than Gabby's.
2. Both numbers are less than 6.
3. Gabby's number is even.
4. When the numbers are added together, the total is 5.

GAME 10 CLUES:

1. Both numbers are even.
2. Gabby's number is greater than Gus's.
3. Gabby's number is less than 8.
4. Gus's number is not 2.

ANSWERS

GAME 1

Gus - 6
Gabby – 2

GAME 6

Gus - 3
Gabby – 7

GAME 2

Gus - 5
Gabby – 10

GAME 7

Gus - 1
Gabby – 10

GAME 3

Gus - 5
Gabby – 3

GAME 8

Gus - 5
Gabby – 3

GAME 4

Gus - 5
Gabby – 6

GAME 9

Gus - 3
Gabby – 2

GAME 5

Gus - 9
Gabby – 2

GAME 10

Gus - 4
Gabby – 6

Find more activities and lesson ideas [here!](#)

Big Ideas for Little Scholars

