WHO AM I?

Am I less than 0?
Am I greater than -10?
Am I less than -2?
Am I -7?

Objective: to determine the value of an integer by
asking questions that can only be answered with a "yes" or "no" response

Players: 2 or 3 teams with at least 2 players per team

Materials: a card deck including the integers from -25 to 25 (suggestion: use 5" x 8"
pieces of cardstock and write the integers in a large font, easily visible from
anywhere in the room)

Instructions:

1. Each team forms a line. The first person in each line is called the Card Holder. The
    Card Holder turns and faces their team.

2. The Card Holder for each team is given a card from the deck and without looking at
    the card, holds it in front of their forehead so their team members can see the
    integer.

3. In one round of play:
    a. each Card Holder asks the first person in their team's line a "yes/no" question;
    b. after answering the question, the first person moves to the end of their line;
    c. teams listen to each other i.e., only one team plays at a time.

4. If a Card Holder correctly identifies their hidden integer during a round:
    a. their team gets a point;
    b. the rest of the teams get to finish that round of play (and might also get a point);
    c. each Card Holder goes to the end of their team's line and the first player in each
       line becomes the new Card Holder and gets a card from the deck.

5. Play continues until each player has had a chance to be a Card Holder.

Variations:

a) Differentiate readiness levels by giving different ranges of integers (e.g., -5 to 5, -20 to
    20, -100 to 100) to different teams. Consider giving some teams a number line.

b) Use pairs or small groups. Each Card Holder in the pair or small group tries to guess
    the integer with the smallest number of questions (or tries to better his/her number of
    questions).

c) Use a deck of playing cards with the face cards removed. Let red cards represent
    positive numbers and black cards represent negative numbers (or vice versa).