Doubling Pathway Activity

.

Materials: Game board and cards, two different colored counters

Goal: Students will practice using the doubling multiplication strategy to solve 2s, 4s, and 8s multiplication facts.

Activity:

- Organize students into two groups and project the game Doubling Pathway.

- Click on the top card.

- Demonstrate how a counter can only be moved to a cell that adjoins it horizontally, vertically, or diagonally, as highlighted in green below, if it shows an expression that matches the card.

- Play the game as a class.

- Students from each group take turns to click the cards and make the play.

- Afterward, organize students into groups of four. Distribute the game boards and cards from the downloadable and the counters. The students can then play the game again.

5 × 4	2 × 5	4 × 3
2 × 2	8 × 3	8 × 7
4 × 8	6 × 8	9 × 4

greater than 36

"The card says greater than 36, so I can move to 8 x 7 which is 56, or to 6 x 8 which is 48. All the other spaces have products less than or equal to 36."

ORIGO Education (2021). The Book of Fact Strategies Teacher Book Multiplication and Division (p. 8). ORIGO Education.

Doubling Pathway
(2s, 4s, and 8s Facts) Game Board

	6 × 8	8 × 1	4 × 3	8 × 4	
8 × 4	4 × 1	2 × 7	4 × 6	5 × 8	4 × 4
3 × 2	9 × 8	2 × 6	8 × 9	4 × 5	8 × 5
7 × 8	3 × 8	2 × 8	4 × 7	4 × 2	2 × 8
5 × 4	2 × 5	4 × 3	5 × 2	2 × 1	8 × 6
2 × 2	8 × 3	8 × 7	4 × 8	6 × 2	2 × 4
4 × 8	6 × 8	9 × 4	3 × 4	8 × 2	1 × 8
7 × 4	2 × 3	8 × 8	6 × 4	4 × 9	9 × 2
	4 × 9	7 × 2	2 × 9	8 × 2	

Doubling Pathway (2s, 4s, and 8s Facts) Cards

greater than 24	greater than 12	greater than 6	greater than 15	greater than 41
less than 16	less than 48	less than 8	less than 32	less than 37
greater than 36	greater than 22	greater than 10	greater than 29	greater than 14
less than 12	less than 21	less than 10	less than 15	less than 56
greater than 48	greater than 19	greater than 9	greater than 23	greater than 44
less than 43	less than 39	less than 27	less than 20	less than 50
greater than 11	greater than 60	greater than 50	greater than 30	greater than 40
less than 30	less than 49	less than 55	less than 26	less than 35
greater than 46	greater than 25	greater than 7	greater than 18	greater than 38
less than 57	less than 42	less than 28	less than 34	less than 17
equals 24	equals 8	equals 40	equals 16	equals 20