

Dance Code Sequences

Dance 1: Whole Class

Face upward on the grid. For example, Dancer A will start facing towards location (2,6).

Repeat 2

Glide 1 step forward.

Glide 1 step to the left.

Dance your way 2 steps back.

Glide 2 steps to the right.

Repeat 2

Dance your way 1 step forward.

Dance your way 1 step back.

End Repeat

Glide 1 step to the left.

End Repeat

Crisscross.

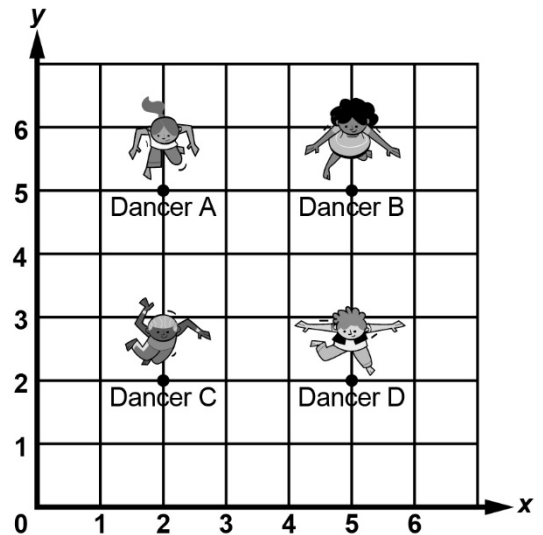
Jump a half turn.

Visualize and dance the code.

Will Dancer A ever be on (3,3) on the coordinate grid?

Where will Dancer D be after “Dance your way 2 steps back”?

Will Dancer C ever be where Dancer B started?



Dance Code Sequences (cont'd)

How is each coding event incorporated into the dance routine?

Sequential events: the dance is a sequence.

Concurrent events: all dancers are doing the same moves, so they'll always be the same distance away from each other.

Repeats: the sequence repeats 2 times, which gets the dancers back to the beginning and has them doing the dance 3 times in total

Nested events: the step forward and back within the repeat of the whole dance sequence is a nested repeating event.

Master 2c

Dance Code Sequences (cont'd)

Dance 2: Whole Class or Groups of Four

Code: Dancer A	Code: Dancer B	Code: Dancer C	Code: Dancer D
Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).
Dance 1 step back.	Move 1 step forward.	Dance 1 step back.	Move 1 step forward.
Glide 1 step left.	Glide 1 step right.	Glide 1 step left.	Glide 1 step right.
Move 1 step forward.	Dance 1 step back.	Move 1 step forward.	Dance 1 step back.
Glide 2 steps right.	Glide 2 steps left.	Glide 2 steps right.	Glide 2 steps left.
Jump a half turn.	Jump a half turn.	Crisscross.	Crisscross.
Crisscross.	Crisscross.	Jump up.	Jump up.
Dance 1 step forward.	Dance 1 step forward.	Dance 1 step forward.	Dance 1 step forward.

Visualize the dance. Talk about how the dancers are moving in relation to one another. What visualizing and tracking strategies are you using?

In groups of four, dance the code sequence.
Talk about what you notice.

Master 2d

Dance Code Sequences (cont'd)

Dance 3: Whole Class or Groups of Four

Code: Dancer A	Code: Dancer B	Code: Dancer C	Code: Dancer D
Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).
Dance 1 step back.	Dance 1 step back.	Move 1 step forward.	Move 1 step forward.
Glide 1 step right.	Glide 1 step right.	Glide 1 step left.	Glide 1 step left.
Dance 1 step back.	Dance 1 step back.	Crisscross.	Crisscross.
Glide 2 steps right.	Glide 2 steps left.	Glide 2 steps right.	Glide 2 steps left.
Dance 1 step forward.	Dance 1 step forward.	Dance 1 step forward.	Dance 1 step forward.

Predict the dancers' movements.

Will the dance work? Will any dancers be in the same location on the coordinate grid at the same time? Explain.

Dance the code to check.

Dance Code Sequences (cont'd)

Alter the Code: Groups of Four

Alter the code for Dance 3 to make it your own.

Make sure that dancers don't bump into each other on the "dance floor!"

At some point in your dance, all the dancers should:

- all be doing different moves
- all be doing the same move

You might:

- adjust the sequence
- add new blocks
- change the numbers of the existing blocks
- add repeats
- alter the starting location of the dancers.

Talk about the changes you are considering and what impact they will have on your dance.

It is important to work back and forth between the code sequence and the outcome of the code (the dance itself).

Name _____ Date _____

Master 2f

Dance Code Sequences (cont'd)

Code: Dancer A	Code: Dancer B	Code: Dancer C	Code: Dancer D
Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).	Face forward (as if you are moving higher on the y-axis).
Dance 1 step back.	Dance 1 step back.	Move 1 step forward.	Move 1 step forward.
Glide 1 step right.	Glide 1 step right.	Glide 1 step left.	Glide 1 step left.
Dance 1 step back.	Dance 1 step back.	Crisscross.	Crisscross.
Glide 2 steps right.	Glide 2 steps left.	Glide 2 steps right.	Glide 2 steps left.
Dance 1 step forward.	Dance 1 step forward.	Dance 1 step forward.	Dance 1 step forward.