

Thursday 26th March 2026



LQ: Can I break down a game to predict the algorithms that are used?

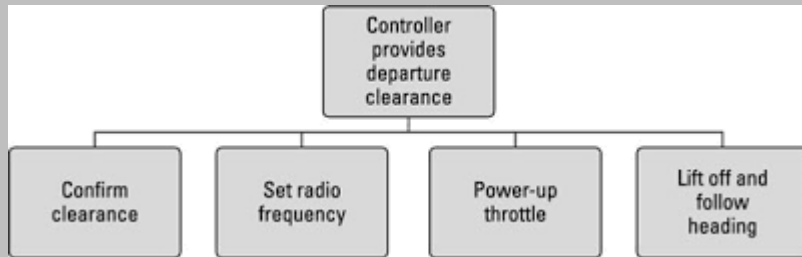
Steps to success



- *All: I understand what the terms 'decomposition' and 'algorithm' mean.*
- *Most: I can decompose a game to predict algorithms.*
- *Some: I can plan algorithms for a more complex game.*

★ STAR WORDS ★

decomposition



algorithm

Predict



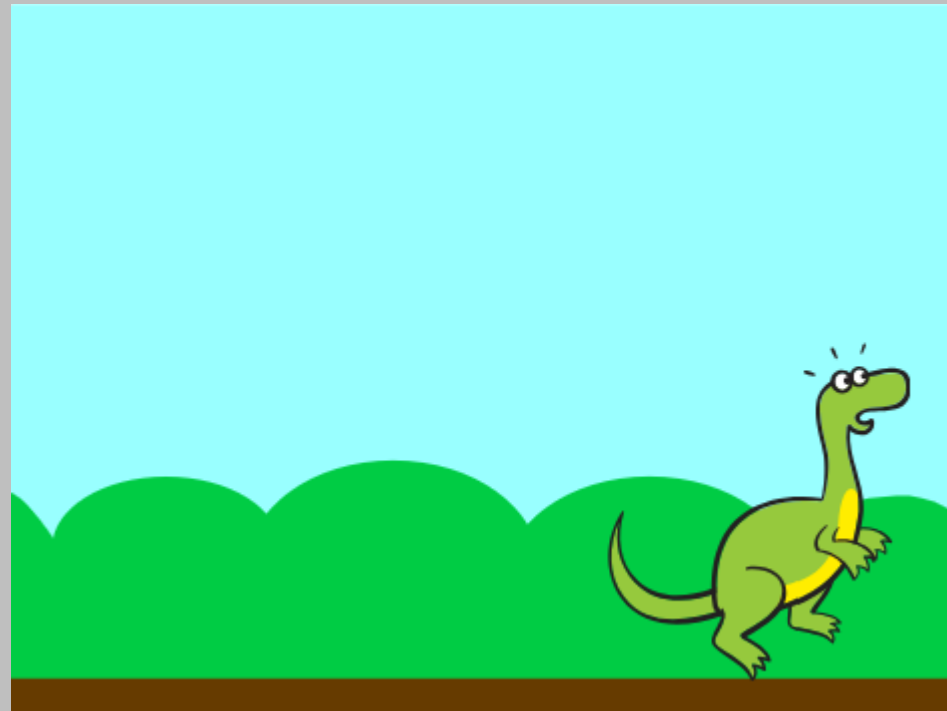
TP:

What does the word algorithm mean?

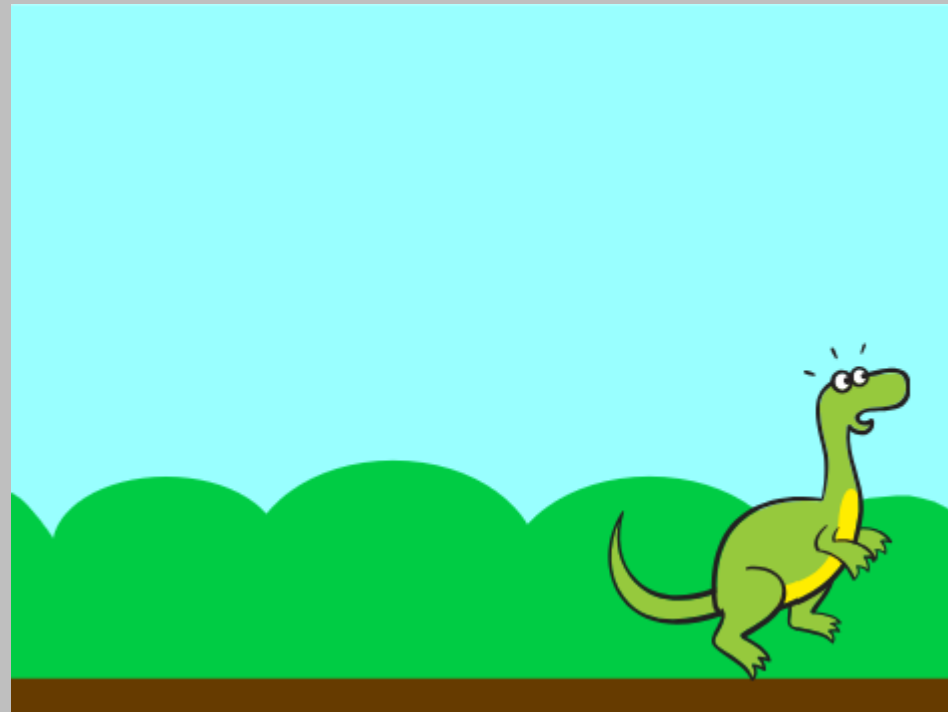
An algorithm is a list of step-by-step instructions in order to get a task done.

Computers can follow algorithms, just like people.

We're going to look at this dinosaur game.
Which keys make the dinosaur move left, move
right and jump?



*You have just decomposed a program.
Decomposing meaning breaking an algorithm down
into smaller parts to understand how it works.*



Now, you're going to spread around the room and we're going to play a real life version of the dinosaur game. When I point at the right arrow key, take one step to the right, when I point at the left arrow key take one step to the left and when I point at the space bar, jump on the spot.



forwards

right

left

backwards

Self Assessment
Do you understand which keys do what?

Class algorithm

Now, we will write a class algorithm using your ideas and then act out the real-life version of your game.

TP: What will the keys make you do? Will the B key make you bow? Will the W key make you wave?

I'll write some of your ideas in the whiteboard and we'll act them out. First, when I point at the R key, you'll roar like a dinosaur!



Self Assessment
Do you understand what to do?

Three hand icons are shown in a row: a thumbs up, a hand pointing to the right, and a thumbs down.