

Programming-Repetition in Shapes

Construction

Prior Knowledge

Year 3: Sequence in music. events and actions.

Year 2: Robot algorithms. An introduction to quizzes.

Year 1: Moving a robot.

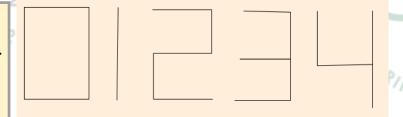
Introduction to animation.

Future Knowledge

Year 5: Selection in physical computing. Selection in quizzes.

Year 6: Variables in games. Sensing.

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My Component Knowledge:

Lesson 1: I know that accuracy in programming is important.

Lesson 2: I can create a program in a text-based language.

Lesson 3: I can explain what repeat means in every day tasks and in sequencing.

Lesson 4: I can modify a count-controlled loop to produce a given outcome.

Lesson 5: I can decompose a task into small steps.

My Composite Knowledge:

I can use basic commands to draw shapes by repeating instructions.

My Powerful Knowledge:

I can use a text-based programming language to create programs by planning, modifying and testing commands to create shapes and patterns.

Key Vocabulary

Tier 1: Turtle

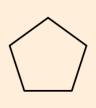
Tier 2: Program, commands, procedure

Tier 3: Code snippet. debug, count-controlled loop

What is a code snippet?

What comes next in this **repeating** pattern?





72°

Pentagon

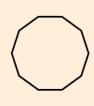


Hexagon



45°

Octagon



Decagon

60°

36°