



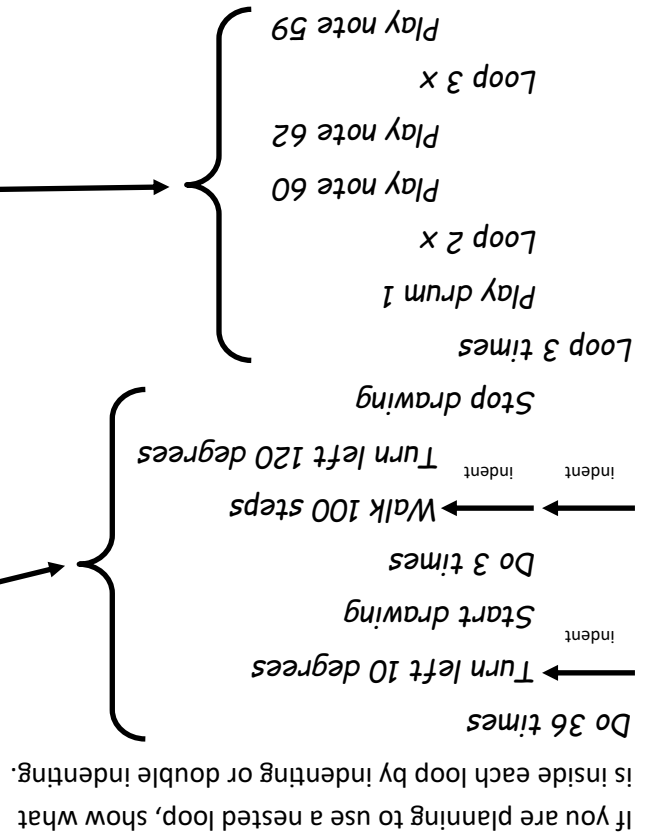
```

repeat 3
  play drum 1 for 0.25 beats
  repeat 2
    play note 60 for 0.5 beats
    play note 62 for 0.5 beats
  repeat 3
    play note 59 for 0.5 beats
  
```

```

repeat 36
  turn 10 degrees
  pen down
  repeat 3
    move 100 steps
    turn 120 degrees
  pen up
  
```

Programming Nested Loops



Nested Loop Algorithm

### Debugging Nested Loops

Add extra wait blocks between every block of code. This will slow the program down and help you to see where the bug is.

Make a step by step list of what will happen.

- Turn left 10
- Pen down
- Move 100
- Turn right 120
- Move 100
- Turn right 120
- Move 100
- Turn right 120
- Pen up
- Turn left 10
- Pen down
- Move 100
- Turn right 120

```

repeat 36
  turn 10 degrees
  wait 1 secs
  pen down
  wait 1 secs
  repeat 3
    move 100 steps
    wait 1 secs
    turn 120 degrees
    wait 1 secs
  pen up
  wait 1 secs
  
```



Code-it Programming Knowledge Cards

# Nested Repeat Loops

## Loops inside loops

### Everyday Nested loops

```

repeat 6
  repeat 5
    say One school day
  repeat 2
    say One Weekend Day
  
```

Showing one six week half term using nested loops.

