

Firework Loops Predict

Page title, today's date, question numbers and answers only in your exercise books

Match the outlines below to the correct sections of code

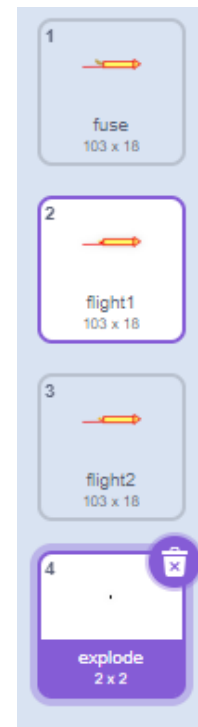
1. Set up the rocket ready to go. (E, F, G or H)
2. Explode the rocket. (E, F, G or H)
3. Fly the rocket up into the sky. (E, F, G or H)
4. Run all the sections of code in order over and over again. (E, F, G or H)

6A

E

define A

F



6B

G

6C

H

5, Draw the flow of control for code section E. Remember to put a dot on the line to show code blocks A, B & C

6, There are three loops on this page, 6A, 6B & 6C. We know when a **definite loop** is going to end. We don't know when an **indefinite loop** will end. Write a **DEF** next to any definite loops and an **IN** next to any indefinite loops.

6A, forever (DEF or IN)
 6B, repeat 25 (DEF or IN)
 6C, repeat 20 (DEF or IN)

NOW MARK THIS PAGE



Firework Loops

Run & Investigate

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- 1, Which line of code makes the rocket wait until the yellow flame touches the brown fuse?
- 2, Which block of code points the rocket upwards?
- 3, How many times is turn right 140 degrees run?
- 4, How many times is **move-4-steps** run when the rocket is in flight?
(*HINT How many move blocks are there?*)
5. How many times are blocks A, B, and C run?
Once,
20 times,
We don't know how many times

NOW MARK THIS SECTION

If you need more help with this project, you can listen to the hint video, but you must write **HINT VIDEO** in your book.

Firework Loops **Modify**

- 1, Change the code to make the rocket fly slower. What did you change?
- 2, Change the code to make the rocket fly higher. What did you change?
- 3, Change the code to produce a larger explosion. What did you change?

NOW MARK THIS SECTION

Firework loops **Create**

- 1, Programme a new firework pattern using repeat loop, move and turn blocks.
- 2, Create a stationary firework that creates a pattern from the floor. You can reuse code.

SAVE YOUR SCRATCH WORK INTO YOUR HOME AREA AS FIREWORK CREATE

