

Agent mission log

Mission 10: The infinite mirror - a tunnel that goes on forever

MISSION BRIEF

Agent, place two mirrors facing each other with a pawn between them. Report what you see. It defies belief.

1 SET UP

- ☐ Two mirrors from the kit ☐ Foam stands ☐ Pawn

2 OBSERVE - COUNT AS MANY PAWNS AS YOU CAN SEE

How many pawns can you count in the tunnel? _____

- ☐ The tunnel fades out ☐ The tunnel looks truly infinite

3 CHANGE THE SETUP AND TEST

Move the mirrors further apart. The tunnel gets:

- ☐ Longer ☐ Shorter ☐ No different

Now tilt one mirror slightly. The tunnel:

- ☐ Curves ☐ Splits ☐ Vanishes

4 DR LUMA'S SCIENCE SECRET

Light bounces between the two mirrors again and again, and each bounce is one more pawn in the tunnel. It looks infinite, but every bounce loses a little light - which is why the far end fades. Real infinity mirrors use one half-silvered mirror so some light escapes towards your eye.

5 REAL-LIFE CONNECT - WHERE HAVE YOU SEEN ONE?

- ☐ Lift ceiling ☐ Wedding hall decoration
☐ Cinema entrance ☐ Restaurant wall

SIGNED BY AGENT

Name: _____ Date: _____