



Think

Why does this plant glow? Would it help? What would it taste like?



Respond

What is the advantage of a glow in the dark garden? Write an advert for new glowing plants. You could even write a script and film your advert.



Solve

A glowing flower is difficult to grow. Only 25% of seeds germinate (grow into plants). How many seeds would you need to grow 8 plants? How many to grow 40? If you had 56 seeds, on average how many plants would grow?



Discuss

Should scientists alter plants? How can altering plants help people?



Reimagine

Design a logo for a garden centre that specialises in glowing plants.



Discover

Fact: Fireflies are beetles, of the family Lampyridae, and use flashes of light to attract a mate.

Question: Do any other animals glow or reflect light? Why do they do this?



Glowing Green **Answers**

How many seeds would you need to grow 8 plants?

If the seeds have a 25% germination rate, you would need to plant four times as many seeds as you want plants:

$$8 \times 4 = 32 \text{ seeds}$$

How many to grow 40?

$$40 \times 4 = 160 \text{ seeds}$$

If you had 56 seeds, on average how many plants would grow?

To calculate 25% of a number, divide by four:

$$56 \div 4 = 14 \text{ plants}$$