

Bantburgh

Year 6 Investigations – Square Numbers

1. Which two consecutive square numbers add to make the next consecutive square number?

Ideas for concrete resources to provide:

- Scrap paper for calculations
- Multi-link cubes or similar to make square numbers

Question prompts:

- What is a square number?
- What are consecutive numbers?

2. What other patterns can you find in sequences of squared numbers?

Ideas for concrete resources to provide:

- Scrap paper for calculations

Question prompts:

- If you know $3^2 + 4^2 = 5^2$, what mathematical knowledge could you use to help you find another sequence?

Investigation 1

Which two consecutive square numbers add to make the next consecutive square number?

Investigation 2

What other patterns can you find in sequences of squared numbers?