

# Year 2 Investigations – Pyramids

## Teacher Guide

### National Curriculum Objectives:

Mathematics Year 2: (2G2b) [Identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces](#)

### Teaching notes:

These investigations are about pyramids. The two different investigations you can carry out are:

1. Can a pyramid have an irregular base?
2. Does a pyramid need identical triangular faces?

Use the question prompts if your pupils require some hints.

[More resources](#) which follow the same small steps as White Rose.

Did you like this resource? Don't forget to [review](#) it on our website.

### 1. Can a pyramid have an irregular base?

Ideas for concrete resources to provide:

- Straws, rolled newspaper, lolly sticks
- Playdough, tape, blu-tack
- Irregular shapes for bases to build (6 provided in this pack)

Question prompts:

- What is an irregular shape?
- What is a pyramid?
- How can you build a pyramid using straws and playdough?

### 2. Does a pyramid need identical triangular faces?

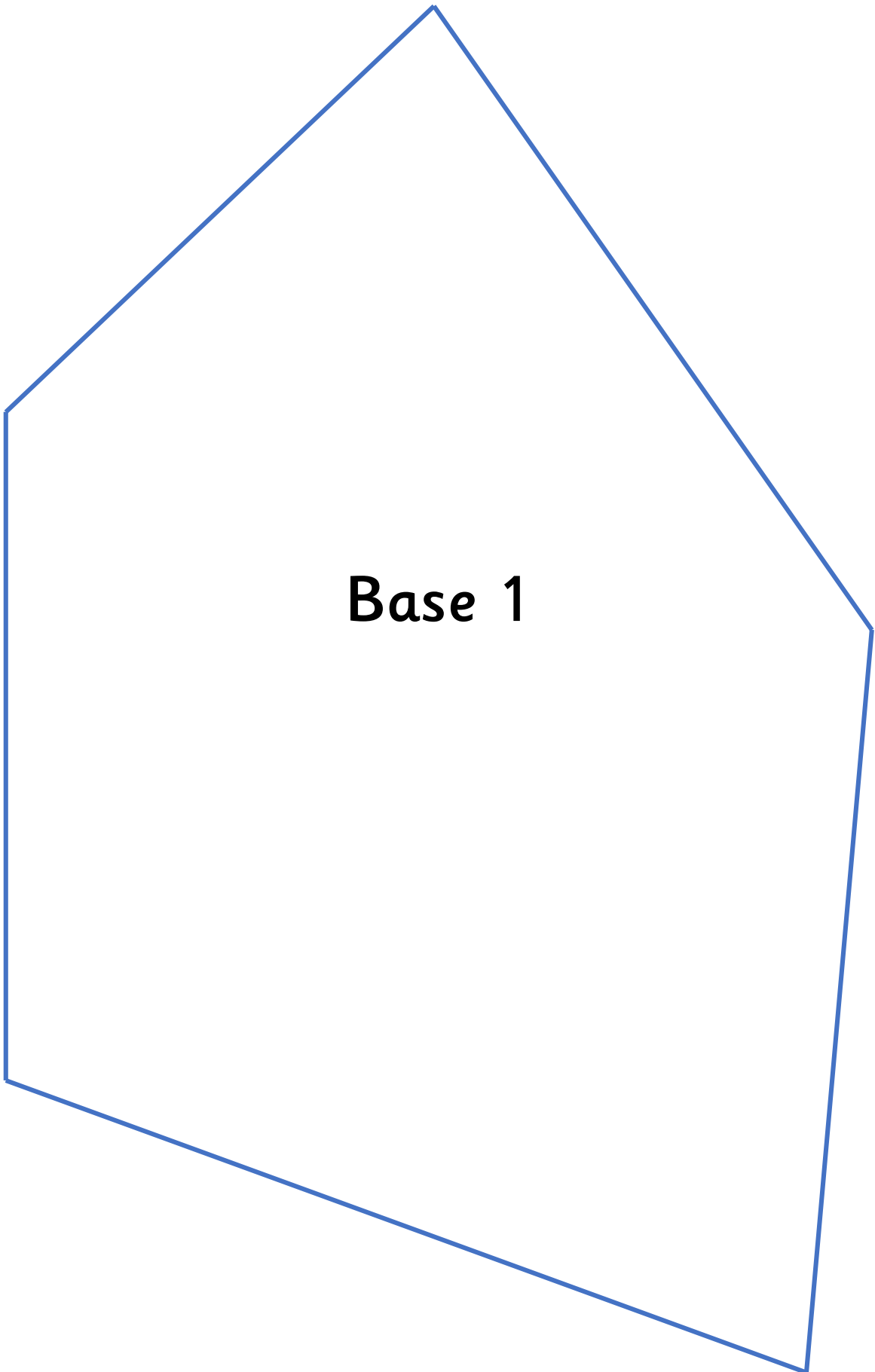
Ideas for concrete resources to provide:

- Straws, rolled newspaper, lolly sticks
- Playdough, tape, blu-tack
- Range of pyramids (teacher to provide images, physical resources, build pyramids prior to the investigation)

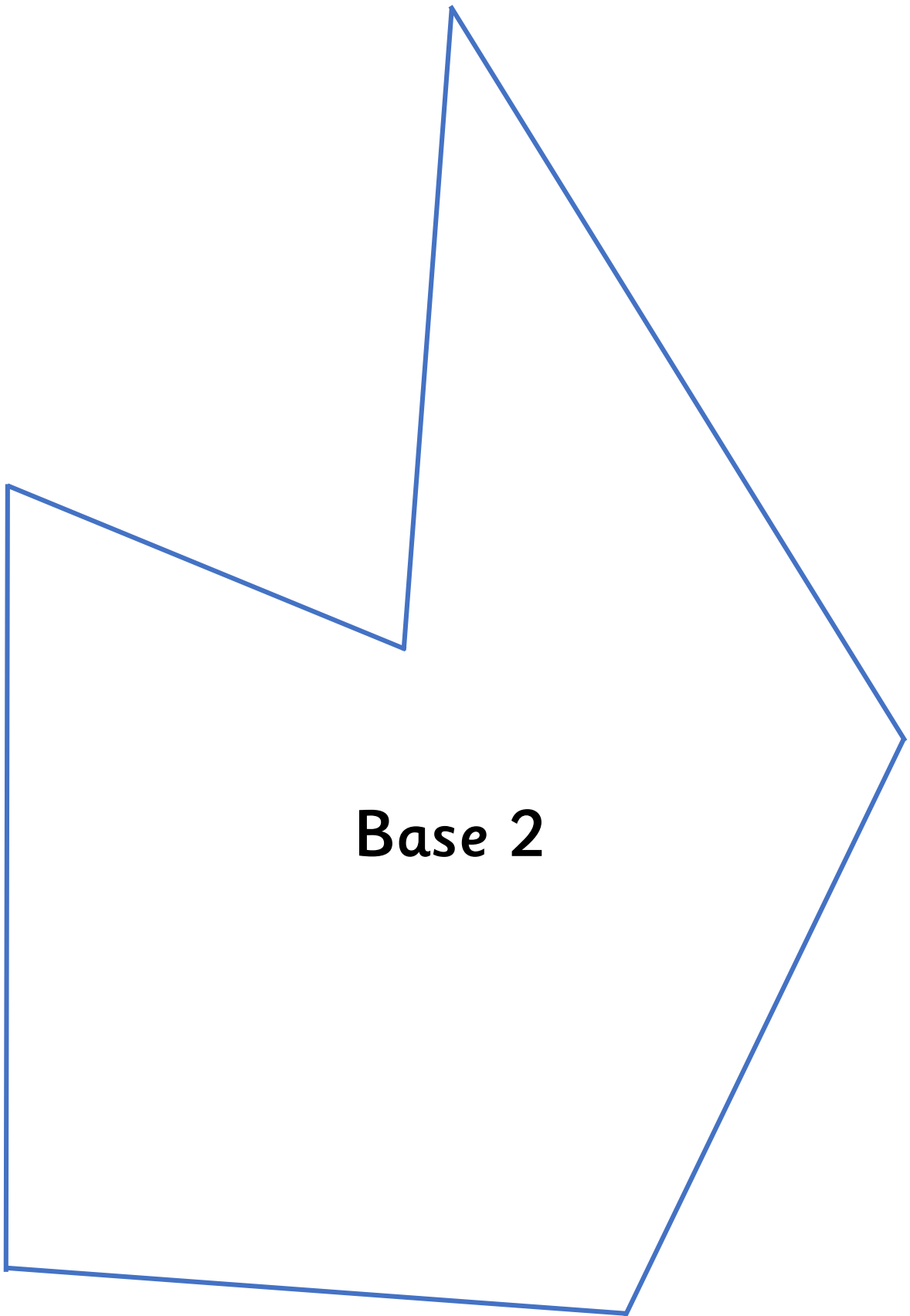
Question prompts:

- What is a pyramid?
- What 2D shapes make up this pyramid? (show a range of pyramids)
- How can you find out if the triangular faces are identical?

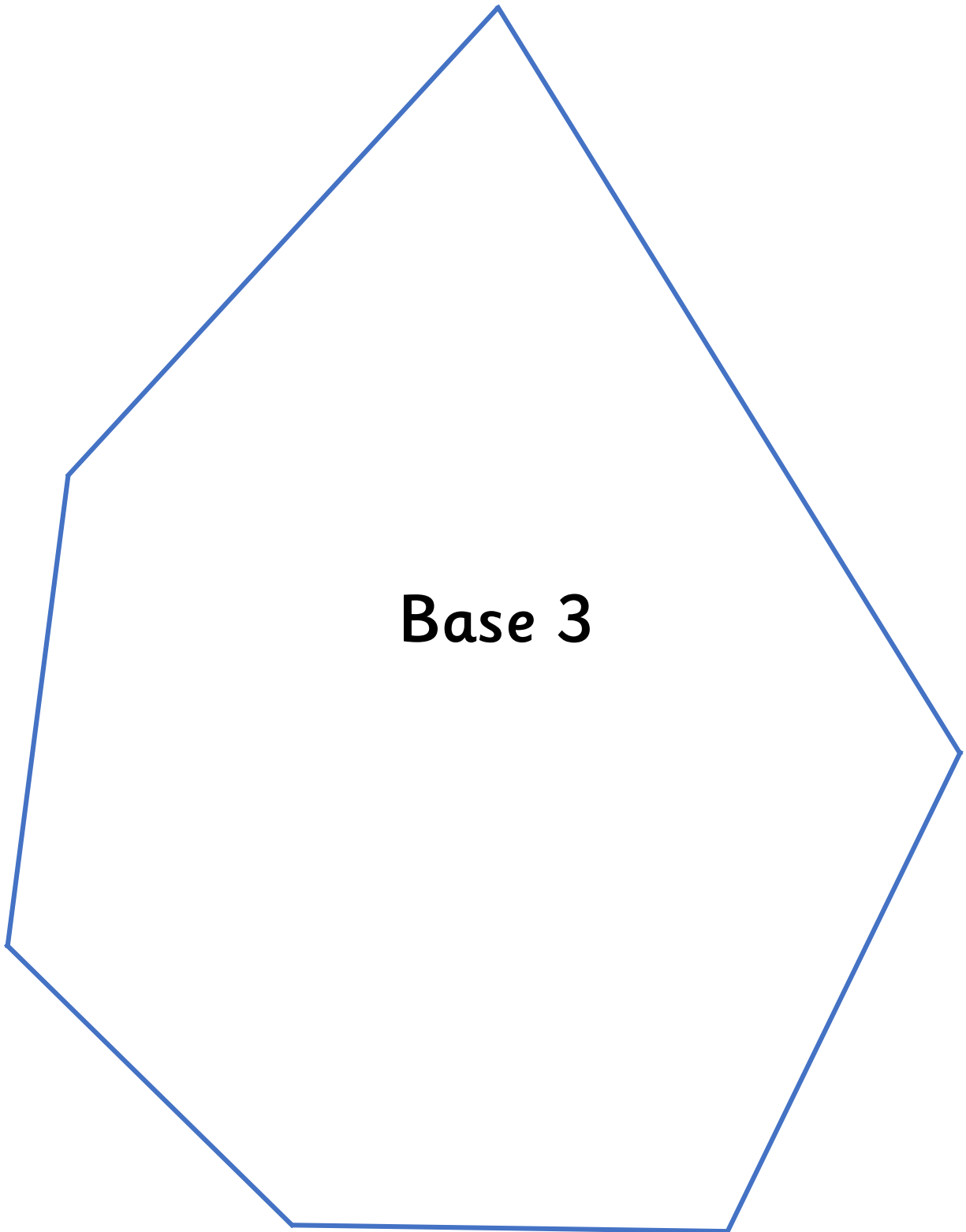
# Investigation 1 – Can a pyramid have an irregular base?



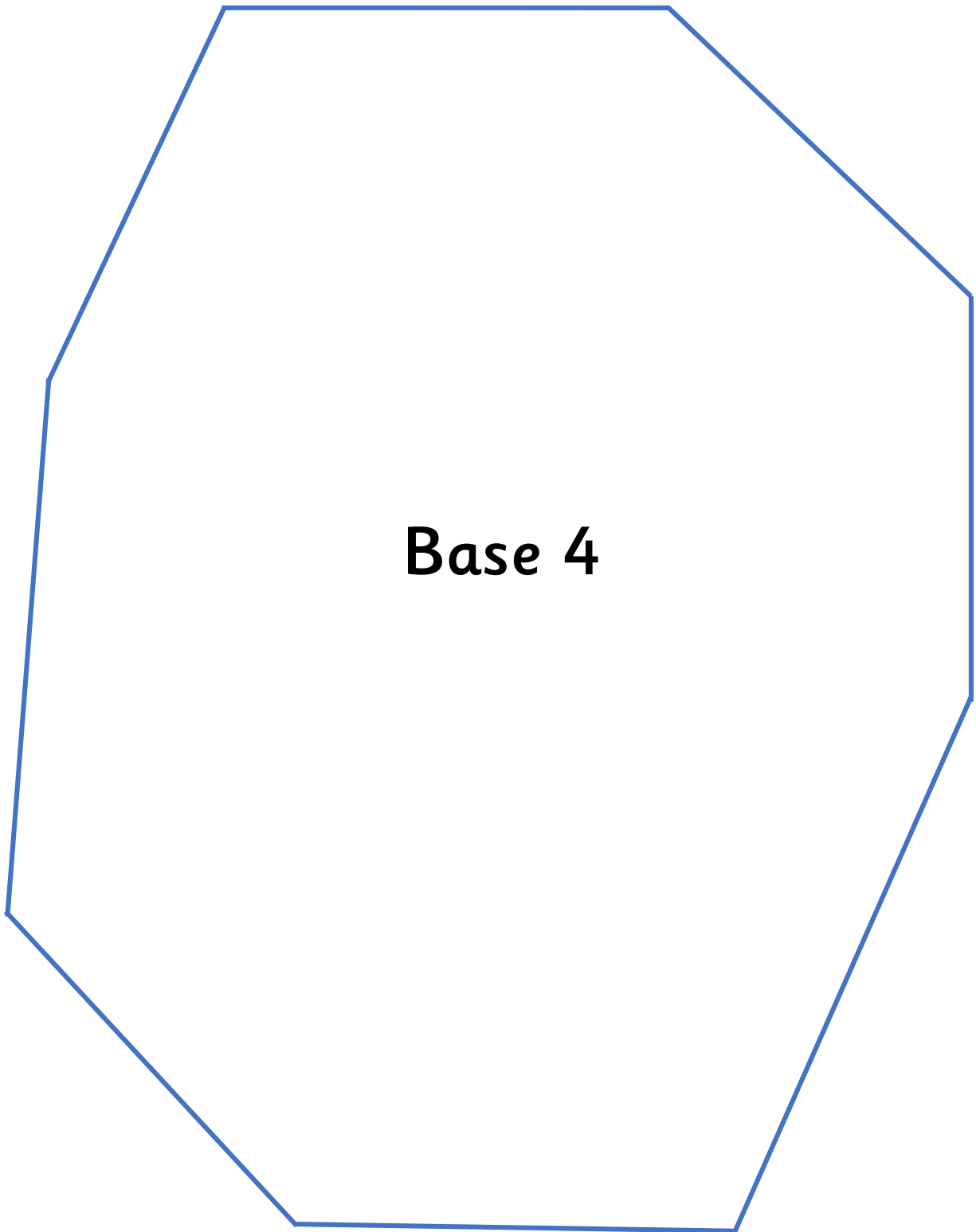
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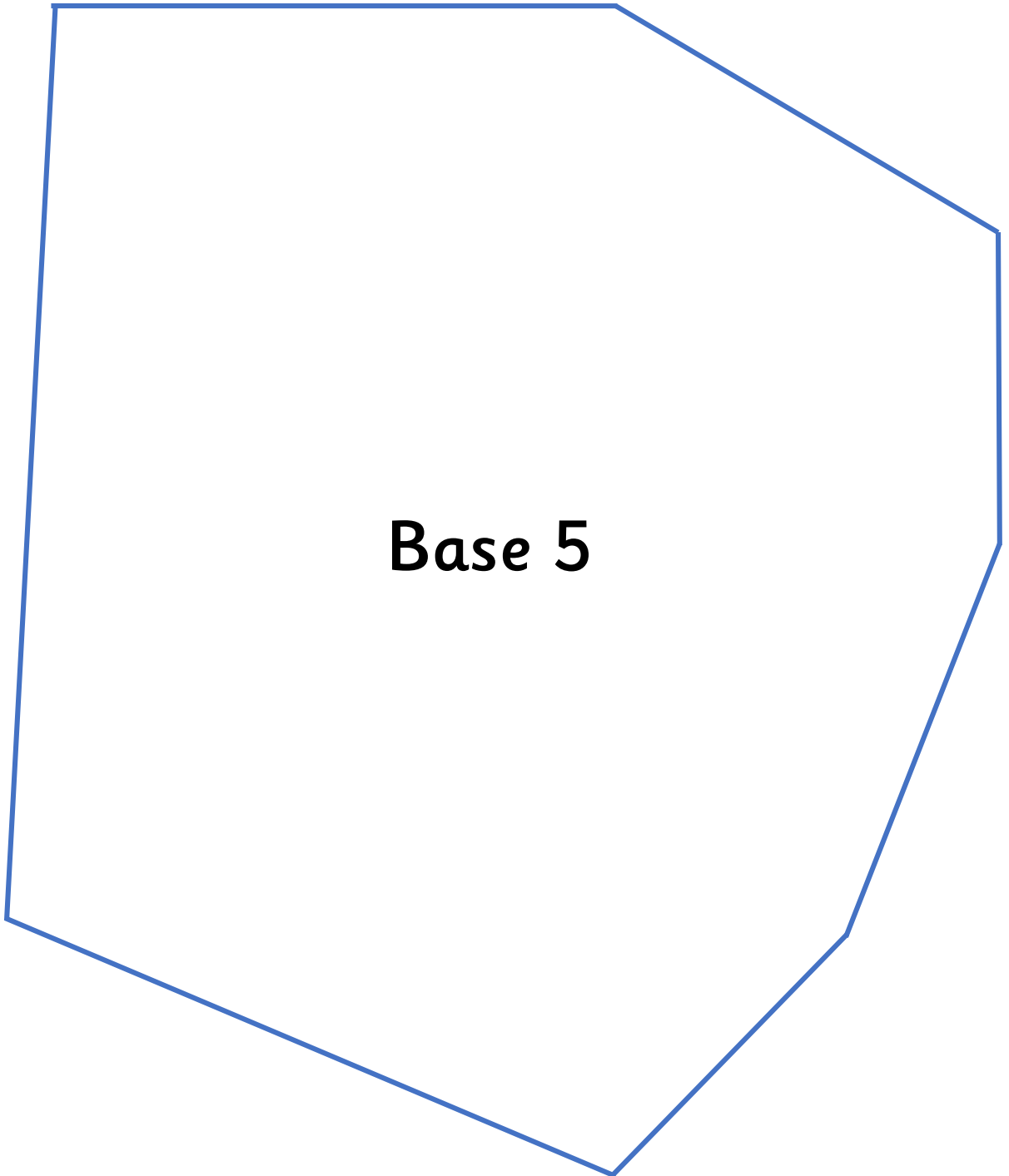
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**Base 6**