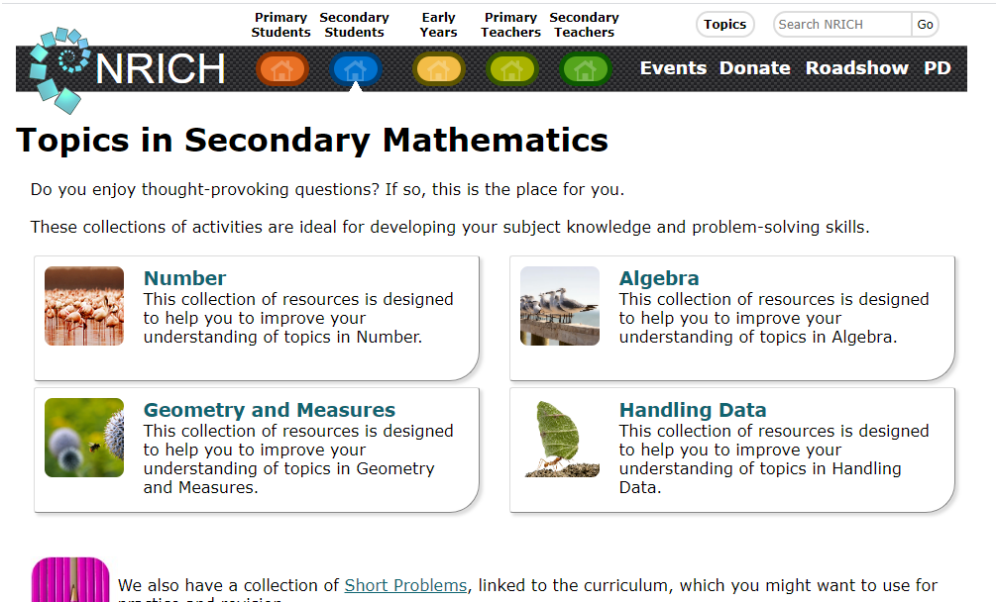
Year 9 Sets 1-3: Enrichment/Extension activities.

Below is a link to a website that will provide you with loads of different extension or enrichment tasks.

https://nrich.maths.org/9196

The initial page looks like this;



From here you can click on any of the four strands of maths: Number, Algebra, Geometry and Measure or Handling Data. This will then take you to a new page with a selection of different topics. Select a topic, for example Transformations from the Geometry and Measure strand.

This will then open a new page with different tasks. These tasks vary in difficulty and are also given an age range, see below.

Transformations

Reflecting Squarely
Age 11 to 14 ★

In how many ways can you fit all three pieces together to make shapes with line symmetry?

Shady Symmetry
Age 11 to 14 ★

How many different symmetrical shapes can you make by shading triangles or squares?

Mirror, Mirror...
Age 11 to 14 ★

Explore the effect of reflecting in two parallel mirror lines.

...on the Wall
Age 11 to 14 ★★

Explore the effect of reflecting in two intersecting mirror lines.

Attractive Rotations
Age 11 to 14 ★

Here is a chance to create some attractive images by rotating shapes through multiples of 90 degrees, or 30 degrees, or 72 degrees or...

Robotic Rotations
Age 11 to 16 ★★

How did the the rotation robot make these patterns?

Transformation Game

You can have a go at any of the task on here as an extension/enrichment task. They will give you details on the task, possibly link to files that you can download to use, they will also provide some help to get started with in the menu section on the left of the page (see image below). The majority also include a section on the left menu for the solutions.