

# ROBOTICS AND MATHEMATICS

ROBOTS ARE ONLY AS SMART  
AS WE MAKE THEM!

Pupils will explore different ways to estimate, calculate and measure distances then use LEGO MINDSTORMS robots to assess their accuracy. They'll calculate the circumference of their robot's wheels and plot a course around the perimeter of shapes.

This is a full day module (4.5 hours teaching time, plus breaks) for pupils in P6-P7.

## CURRICULUM FOR EXCELLENCE

THIS MODULE COMPLEMENTS CFE  
MATHEMATICS (2.11B, 2.11C, 2.16A)  
AND TECHNOLOGY (2.09A, 2.12A).

Pupils will explore different methods to determine the perimeter of simple 2D shapes, use common units of measurement, carry out calculations and use design skills to solve problems, construct models and create a solution.



SCIENCE  
SKILLS  
ACADEMY

ACADAMAIDH NAN SGILEAN SAIDHEANS

## > WHAT IS A NEWTON ROOM?

A Newton Room is a bespoke STEM learning centre where we deliver practical STEM activities to P6-S2 students, which are tailored to complement the Curriculum for Excellence and industries in the local community.

Newton Room modules are designed to excite and inspire students, and encourage them to study STEM subjects at school and beyond. We introduce a variety of STEM career pathways, both in general and in the Highlands and Islands region.

The Newton Rooms are operated by the Science Skills Academy staff from Highlands and Islands Enterprise and the Highland Council.

Our target is for every P6, P7, S1 and S2 pupil in the Highland Council area to attend the Newton Room, for at least one day, every year.

With funding from the Inverness and Highland City-Region Deal, there will be five new Newton Rooms created across the Highland Council Area.

The first two are in Thurso and Fort William:

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### THURSO NEWTON ROOM

**NORTH HIGHLAND COLLEGE, ORMLIE ROAD, THURSO KW14 7EE**

### FORT WILLIAM NEWTON ROOM (MONDAYS AND TUESDAYS ONLY)

**CAOL YOUTH CENTRE, GLENKINGIE STREET, CAOL, FORT WILLIAM PH33 7DP**

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#### HOW DO WE BOOK?

**EMAIL [NEWTON.ROOMS@HIENT.CO.UK](mailto:NEWTON.ROOMS@HIENT.CO.UK)**

with your first and second choice of dates along with School name, year group.

#### COST

The Newton Room is free to attend.

#### LOGISTICS

Pupils will need to bring a packed lunch.

#### TRANSPORT

Until end of March 2020, the Science Skills Academy is able to make a financial contribution to assist with transport costs as follows:

Distance from Newton Room:	Funding available
Less than 3 miles:	None
3-20 miles:	£75 contribution
Greater than 21 miles:	£100 contribution

We hope to enhance this contribution in the future through local businesses and applications to community funds.

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Scottish Government  
Riaghaltas na h-Alba  
[gov.scot](http://gov.scot)

