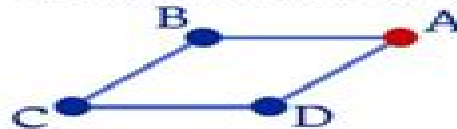




## MODULE 6: INVESTIGATION 2

### Coordinate Shapes

This investigation develops the use of coordinates in the context of vertices of shapes which have geometric properties. The activities encourage the reading and writing of coordinate notation through the use of the letter of the alphabet on a grid. Scaling is revisited to transform pixel coordinates to grid coordinates. Connections can be made to the geometric properties of shapes by creating problems and encouraging pupils to exchange their own creations using the **6-Coordinates FINAL** project which is built during the investigation.



- ◆ Activity 6.2.1 – Letters and Co-ordinates
- ◆ Activity 6.2.2 – Busy Fleeeee And Clever Points
- ◆ Activity 6.2.3 – Tricky Triangles
- ◆ Activity 6.2.4 – Quirky Quadrilaterals

#### Scratch projects

**6-Grid Letters**  
**6-Grid Letters FINAL**  
**6-Coordinates**  
**6-Coordinates INT1**  
**6-Coordinates INT2**  
**6-Coordinates FINAL**

#### LINKS TO PRIMARY NATIONAL CURRICULUM

CURRICULUM OBJECTIVES	LINK WITH SCRATCHMATHS
<b>Mathematics</b> Describe positions on the full coordinates grid. Interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context. Solve problems involving similar shapes where the scale factor is known or can be found. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes. Plot specified points and draw sides to complete a given polygon.	<ul style="list-style-type: none"><li>▶ Pupils are required to code and decode messages using the positions of letters on the coordinates grid.</li><li>▶ [Extension] Pupils encounter the need to round the result of division operations in order to get sprites to snap to the nearest grid point.</li><li>▶ Pupils are required to use the grid variable (in a similar way to the previous investigation) to adapt their project to different grid intervals.</li><li>▶ Pupils create and exchange coordinate problems whose solutions require coordinate and properties of shape knowledge.</li></ul>

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A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Ontario Department of Education text.

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**The Modern High School, Its Administration and Extension** Charles Hughes Johnston, 1916

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## **Table of Contents Solutions Extension Pupil 7**

1. Understanding the eBook Solutions Extension Pupil 7
  - The Rise of Digital Reading Solutions Extension Pupil 7
  - Advantages of eBooks Over Traditional Books
2. Identifying Solutions Extension Pupil 7
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Solutions Extension Pupil 7
  - User-Friendly Interface
4. Exploring eBook Recommendations from Solutions Extension Pupil 7
  - Personalized Recommendations
  - Solutions Extension Pupil 7 User Reviews and Ratings
  - Solutions Extension Pupil 7 and Bestseller Lists
5. Accessing Solutions Extension Pupil 7 Free and Paid eBooks
  - Solutions Extension Pupil 7 Public Domain eBooks
  - Solutions Extension Pupil 7 eBook Subscription Services
  - Solutions Extension Pupil 7 Budget-Friendly Options

6. Navigating Solutions Extension Pupil 7 eBook Formats
  - ePub, PDF, MOBI, and More
  - Solutions Extension Pupil 7 Compatibility with Devices
  - Solutions Extension Pupil 7 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Solutions Extension Pupil 7
  - Highlighting and Note-Taking Solutions Extension Pupil 7
  - Interactive Elements Solutions Extension Pupil 7
8. Staying Engaged with Solutions Extension Pupil 7
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Solutions Extension Pupil 7
9. Balancing eBooks and Physical Books Solutions Extension Pupil 7
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Solutions Extension Pupil 7
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Solutions Extension Pupil 7
  - Setting Reading Goals Solutions Extension Pupil 7
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Solutions Extension Pupil 7
  - Fact-Checking eBook Content of Solutions Extension Pupil 7
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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