

# Pearson iLower Secondary

*A British lower secondary  
curriculum for international  
schools worldwide*

Ages 11-14

**Presenter:**

**Date :**

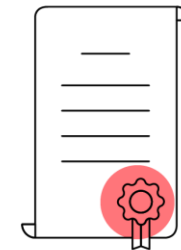


# Welcome to Pearson Edexcel

- Trusted by millions of learners, we are the world's leading learning company and as the **UK's largest awarding organisation**, we are best placed to provide qualifications aligned to the British educational system.
- We may not have a university name, but our international **heritage stretches back over 150 years**.
- Today, we partner with schools, universities and employers worldwide, offering world-class, globally-recognised qualifications to over **3.5 million students a year**.



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- Career-based BTEC qualifications.
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- Learner research and professional developments.

# iProgress with Pearson Edexcel

Delivering a consistent learning journey for students aged 3 to 18, everywhere in the world. The iProgress family includes:

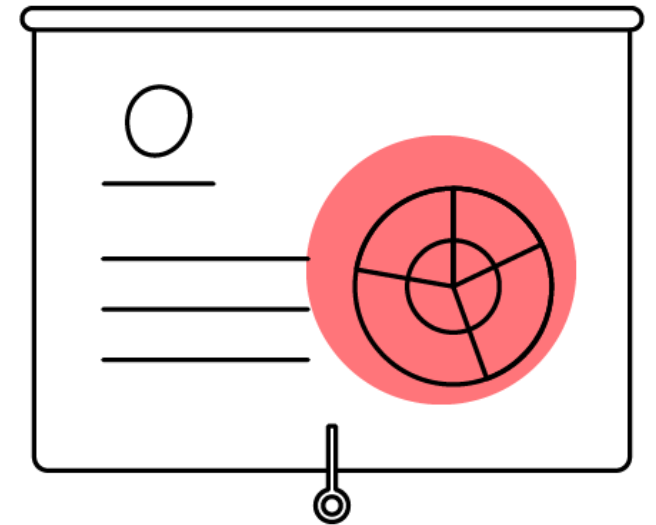


More than just a curriculum or qualification

- iProgress offers a range of curriculum support resources, tools and services including training, professional development, print and online teaching materials.

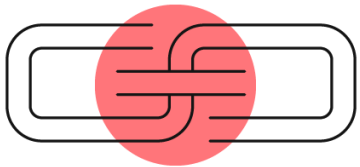
# Introduction to iLowerSecondary

- Pearson Edexcel iLowerSecondary is a complete programme for use in International Secondary Schools (Key Stage 3) for learners aged 11 to 14.
- iLowerSecondary comes with a wealth of support for teachers including:
  - sample schemes of work
  - exemplified units of work
  - internally assessed progress tests
  - externally assessed achievement tests
  - a comprehensive professional development programme
- All iLowerSecondary subjects are also supported by world-renowned Pearson print and digital published resources so teachers are fully supported to focus on their primary role of guiding and helping young learners to achieve their full potential.



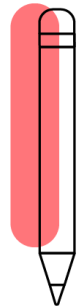
# Why Choose Pearson Edexcel iLowerSecondary

Aligned to the  
English National  
Curriculum



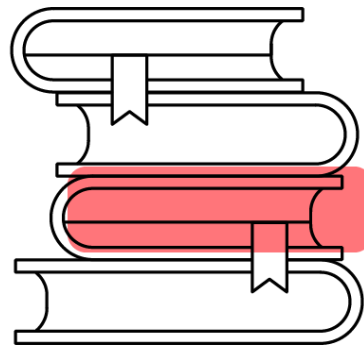
Appropriate for international learners with global topics and the use of culturally sensitive, local contexts where possible.

Suitable for  
international  
English language  
learners



Written with learners of English as an additional language (EAL) in mind with the leveling set in between E1L and E2L.

Developing a love  
of English, Maths  
and Science



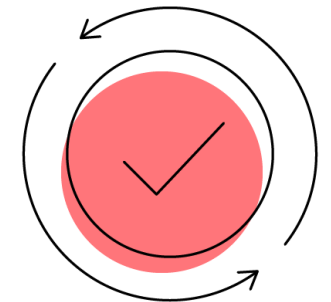
The programme content is founded on some of our most popular courses to better engage students with core subjects.

Monitor learners'  
progress  
throughout the  
course



Includes globally benchmarked examinations at the end of key stages, as well as ongoing summative assessment.

Prepare students  
for progression



Specifically designed to prepare students for International GCSE (Key Stage 4).



# iLowerSecondary - Subjects

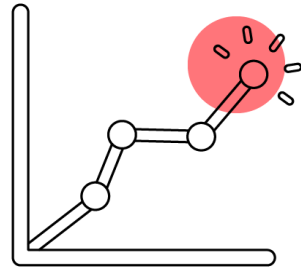
**5 subjects are available at iLowerSecondary level**

iLowerSecondary  
English (2018)



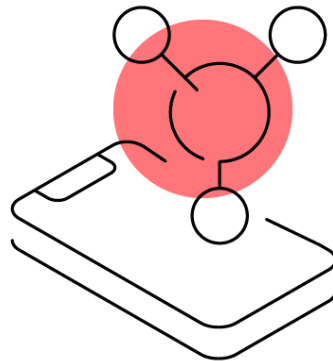
Designed specifically for non-native speakers of English who are studying the majority of their curriculum subjects in English.

iLowerSecondary  
Mathematics (2018)



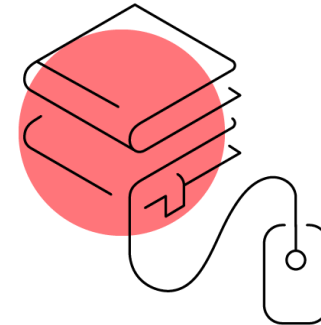
Provides a strong foundation in mathematics by introducing and reinforcing concepts that lay the groundwork for lower secondary education.

iLowerSecondary  
Science (2018)



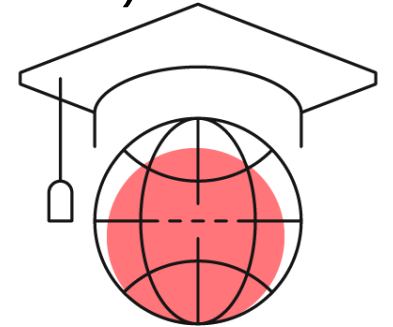
Designed to support enquiry-based learning with a strong emphasis on developing scientific enquiry skills and content.

iLowerSecondary  
Computing (2019)



Equips students to understand and apply the fundamental principles and concepts of computer science and information technology.

iLowerSecondary  
Global Citizenship  
(2021)



Designed to fuel discussion, inspire collaboration and develop students' ability to think critically about a wide range of global issues.



# Published Resources



# iLowerSecondary – Published Resources

## Internationally renowned courseware

### iLowerSecondary English – Text: Building Skills in English



Developing essential language skills in English  
for 11-14 year-olds

<https://pearson.com/international-schools/british-curriculum/secondary-curriculum/ilower-secondary/text-building-skills-in-english.html.html>

### iLowerSecondary Mathematics – Maths Progress



Create confident and numerate students  
ready for the International GCSE (9–1).

<https://www.pearson.com/international-schools/british-curriculum/secondary-curriculum/ilower-secondary/maths-progress-international.html>

### iLowerSecondary Science - Exploring Science



Inspiring 11-14 science with seamless  
progression to International GCSEs

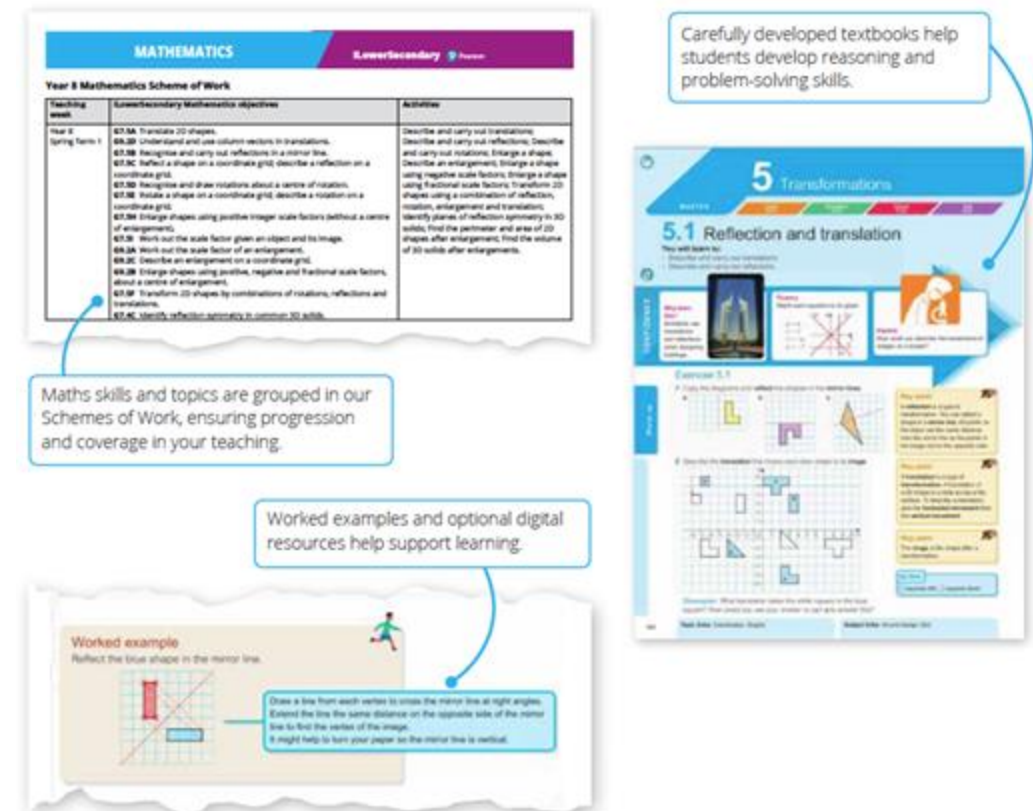
<https://www.pearson.com/international-schools/british-curriculum/secondary-curriculum/ilower-secondary/ks3-exploring-science-international.html>



# KS3 Maths Progress for iLowerSecondary Maths

Our KS3 Maths Progress course has been carefully developed by the same series editors as our Pearson Edexcel International GCSE (9–1) Mathematics course.

It has the same mastery approach and unique unit structure with in-built differentiation, to help build confidence in maths and to provide you with a consistent teaching and learning experience from ages 11 to 16.



**MATHEMATICS** LowerSecondary

**Year 8 Mathematics Scheme of Work**

Teaching week	LowerSecondary Mathematics objectives	Activities
Year 8 Spring Term 1	<p>67.5A Translate 2D shapes.</p> <p>67.5B Understand and use column vectors in translations.</p> <p>67.5C Recognise and carry out reflections in a mirror line.</p> <p>67.5D Reflect a shape on a coordinate grid; describe a reflection on a coordinate grid.</p> <p>67.5E Recognise and draw rotations about a centre of rotation.</p> <p>67.5F Rotate a shape on a coordinate grid; describe a rotation on a coordinate grid.</p> <p>67.5G Enlarge shapes using positive integer scale factors without a centre of enlargement.</p> <p>67.5H Work out the scale factor given an object and its image.</p> <p>67.5I Work out the scale factor of an enlargement.</p> <p>67.5J Describe an enlargement on a coordinate grid.</p> <p>67.5K Enlarge shapes using positive, negative and fractional scale factors; describe a centre of enlargement.</p> <p>67.5L Transform 2D shapes by combinations of rotations, reflections and translations.</p> <p>67.5M Identify reflection symmetry in common 2D solids.</p>	<p>Describe and carry out translations.</p> <p>Describe and carry out reflections. Describe and carry out rotations. Enlarge a shape.</p> <p>Describe an enlargement. Enlarge a shape using negative scale factors. Enlarge a shape using fractional scale factors. Transform 2D shapes using a combination of reflection, rotation, enlargement and translation.</p> <p>Identify planes of reflection symmetry in 3D solids. Find the perimeter and area of 2D shapes after enlargement. Find the volume of 3D solids after enlargement.</p>

Carefully developed textbooks help students develop reasoning and problem-solving skills.

**5 Transformations**

**5.1 Reflection and translation**

You will learn to:

- Describe and carry out translations.
- Describe and carry out reflections.
- Enlarge and reduce 2D shapes.

**Exercise 5.1**

1 Copy the shapes and reflect them in the mirror line.

2 Describe the translation that moves shape A to shape B.

3 Describe the translation that moves shape C to shape D.

4 Describe the translation that moves shape E to shape F.

5 Describe the translation that moves shape G to shape H.

6 Describe the translation that moves shape I to shape J.

7 Describe the translation that moves shape K to shape L.

8 Describe the translation that moves shape M to shape N.

9 Describe the translation that moves shape O to shape P.

10 Describe the translation that moves shape Q to shape R.

11 Describe the translation that moves shape S to shape T.

12 Describe the translation that moves shape U to shape V.

13 Describe the translation that moves shape W to shape X.

14 Describe the translation that moves shape Y to shape Z.

15 Describe the translation that moves shape AA to shape AB.

16 Describe the translation that moves shape AC to shape AD.

17 Describe the translation that moves shape AE to shape AF.

18 Describe the translation that moves shape AG to shape AH.

19 Describe the translation that moves shape AI to shape AJ.

20 Describe the translation that moves shape AK to shape AL.

21 Describe the translation that moves shape AM to shape AN.

22 Describe the translation that moves shape AO to shape AP.

23 Describe the translation that moves shape AQ to shape AR.

24 Describe the translation that moves shape AS to shape AT.

25 Describe the translation that moves shape AU to shape AV.

26 Describe the translation that moves shape AW to shape AX.

27 Describe the translation that moves shape AY to shape AZ.

28 Describe the translation that moves shape BA to shape BB.

29 Describe the translation that moves shape BC to shape BD.

30 Describe the translation that moves shape BE to shape BF.

31 Describe the translation that moves shape BG to shape BH.

32 Describe the translation that moves shape BI to shape BJ.

33 Describe the translation that moves shape BK to shape BL.

34 Describe the translation that moves shape BM to shape BN.

35 Describe the translation that moves shape BO to shape BP.

36 Describe the translation that moves shape BQ to shape BR.

37 Describe the translation that moves shape BS to shape BT.

38 Describe the translation that moves shape BU to shape BV.

39 Describe the translation that moves shape BW to shape BX.

40 Describe the translation that moves shape BY to shape BZ.

41 Describe the translation that moves shape CA to shape CC.

42 Describe the translation that moves shape CD to shape CE.

43 Describe the translation that moves shape CE to shape CF.

44 Describe the translation that moves shape CG to shape CH.

45 Describe the translation that moves shape CI to shape CJ.

46 Describe the translation that moves shape CK to shape CL.

47 Describe the translation that moves shape CM to shape CN.

48 Describe the translation that moves shape CO to shape CP.

49 Describe the translation that moves shape CQ to shape CR.

50 Describe the translation that moves shape CS to shape CT.

51 Describe the translation that moves shape CU to shape CV.

52 Describe the translation that moves shape CW to shape CX.

53 Describe the translation that moves shape CY to shape CZ.

54 Describe the translation that moves shape DA to shape DD.

55 Describe the translation that moves shape DE to shape DF.

56 Describe the translation that moves shape DF to shape DG.

57 Describe the translation that moves shape DH to shape DI.

58 Describe the translation that moves shape DI to shape DJ.

59 Describe the translation that moves shape DK to shape DL.

60 Describe the translation that moves shape DM to shape DN.

61 Describe the translation that moves shape DO to shape DP.

62 Describe the translation that moves shape DQ to shape DR.

63 Describe the translation that moves shape DS to shape DT.

64 Describe the translation that moves shape DU to shape DV.

65 Describe the translation that moves shape DW to shape DX.

66 Describe the translation that moves shape DY to shape DZ.

67 Describe the translation that moves shape EA to shape EE.

68 Describe the translation that moves shape EF to shape EG.

69 Describe the translation that moves shape EG to shape EH.

70 Describe the translation that moves shape EI to shape EJ.

71 Describe the translation that moves shape EK to shape EL.

72 Describe the translation that moves shape EM to shape EN.

73 Describe the translation that moves shape EO to shape EP.

74 Describe the translation that moves shape EQ to shape ER.

75 Describe the translation that moves shape ES to shape ET.

76 Describe the translation that moves shape EU to shape EV.

77 Describe the translation that moves shape EW to shape EX.

78 Describe the translation that moves shape EY to shape EZ.

79 Describe the translation that moves shape FA to shape FF.

80 Describe the translation that moves shape FG to shape FH.

81 Describe the translation that moves shape FH to shape FI.

82 Describe the translation that moves shape FJ to shape FK.

83 Describe the translation that moves shape FL to shape FM.

84 Describe the translation that moves shape FO to shape FP.

85 Describe the translation that moves shape FQ to shape FR.

86 Describe the translation that moves shape FS to shape FT.

87 Describe the translation that moves shape FU to shape FV.

88 Describe the translation that moves shape FW to shape FX.

89 Describe the translation that moves shape FY to shape FZ.

90 Describe the translation that moves shape GA to shape GG.

91 Describe the translation that moves shape GH to shape GI.

92 Describe the translation that moves shape GI to shape GJ.

93 Describe the translation that moves shape GK to shape GL.

94 Describe the translation that moves shape GM to shape GN.

95 Describe the translation that moves shape GO to shape GP.

96 Describe the translation that moves shape GQ to shape GR.

97 Describe the translation that moves shape GS to shape GT.

98 Describe the translation that moves shape GU to shape GV.

99 Describe the translation that moves shape GW to shape GX.

100 Describe the translation that moves shape GY to shape GZ.

101 Describe the translation that moves shape HA to shape HH.

102 Describe the translation that moves shape HI to shape HJ.

103 Describe the translation that moves shape HJ to shape HK.

104 Describe the translation that moves shape HL to shape HM.

105 Describe the translation that moves shape HO to shape HP.

106 Describe the translation that moves shape HQ to shape HR.

107 Describe the translation that moves shape HS to shape HT.

108 Describe the translation that moves shape HU to shape HV.

109 Describe the translation that moves shape HW to shape HX.

110 Describe the translation that moves shape HY to shape HZ.

111 Describe the translation that moves shape IA to shape II.

112 Describe the translation that moves shape IB to shape IC.

113 Describe the translation that moves shape IC to shape ID.

114 Describe the translation that moves shape IE to shape IF.

115 Describe the translation that moves shape IF to shape IG.

116 Describe the translation that moves shape IH to shape II.

117 Describe the translation that moves shape II to shape IJ.

118 Describe the translation that moves shape IK to shape IL.

119 Describe the translation that moves shape IM to shape IN.

120 Describe the translation that moves shape IO to shape IP.

121 Describe the translation that moves shape IQ to shape IR.

122 Describe the translation that moves shape IS to shape IT.

123 Describe the translation that moves shape IU to shape IV.

124 Describe the translation that moves shape IW to shape IX.

125 Describe the translation that moves shape IY to shape IZ.

126 Describe the translation that moves shape JA to shape JJ.

127 Describe the translation that moves shape JB to shape JK.

128 Describe the translation that moves shape JK to shape JL.

129 Describe the translation that moves shape JM to shape JN.

130 Describe the translation that moves shape JO to shape JP.

131 Describe the translation that moves shape JQ to shape JR.

132 Describe the translation that moves shape JS to shape JT.

133 Describe the translation that moves shape JU to shape JV.

134 Describe the translation that moves shape JW to shape JX.

135 Describe the translation that moves shape JY to shape JZ.

136 Describe the translation that moves shape KA to shape KK.

137 Describe the translation that moves shape KB to shape KL.

138 Describe the translation that moves shape KL to shape KM.

139 Describe the translation that moves shape KN to shape KO.

140 Describe the translation that moves shape KP to shape KQ.

141 Describe the translation that moves shape KR to shape KS.

142 Describe the translation that moves shape KT to shape KU.

143 Describe the translation that moves shape KV to shape KW.

144 Describe the translation that moves shape KW to shape KX.

145 Describe the translation that moves shape KY to shape KZ.

146 Describe the translation that moves shape LA to shape LL.

147 Describe the translation that moves shape LB to shape LM.

148 Describe the translation that moves shape LM to shape LN.

149 Describe the translation that moves shape LO to shape LP.

150 Describe the translation that moves shape LP to shape LQ.

151 Describe the translation that moves shape LR to shape LS.

152 Describe the translation that moves shape LT to shape LU.

153 Describe the translation that moves shape LV to shape LW.

154 Describe the translation that moves shape LW to shape LX.

155 Describe the translation that moves shape LY to shape LZ.

156 Describe the translation that moves shape MA to shape MM.

157 Describe the translation that moves shape MB to shape MN.

158 Describe the translation that moves shape MN to shape MO.

159 Describe the translation that moves shape MP to shape MQ.

160 Describe the translation that moves shape MR to shape MS.

161 Describe the translation that moves shape MT to shape MU.

162 Describe the translation that moves shape MV to shape MW.

163 Describe the translation that moves shape MW to shape MX.

164 Describe the translation that moves shape MY to shape MZ.

165 Describe the translation that moves shape NA to shape NN.

166 Describe the translation that moves shape NB to shape NO.

167 Describe the translation that moves shape NO to shape NP.

168 Describe the translation that moves shape NP to shape NQ.

169 Describe the translation that moves shape NR to shape NS.

170 Describe the translation that moves shape NT to shape NU.

171 Describe the translation that moves shape NV to shape VW.

172 Describe the translation that moves shape VW to shape VX.

173 Describe the translation that moves shape VY to shape VZ.

174 Describe the translation that moves shape WA to shape WW.

175 Describe the translation that moves shape WB to shape WX.

176 Describe the translation that moves shape WX to shape WY.

177 Describe the translation that moves shape WY to shape WZ.

178 Describe the translation that moves shape XA to shape XX.

179 Describe the translation that moves shape XB to shape XY.

180 Describe the translation that moves shape XY to shape XZ.

181 Describe the translation that moves shape YB to shape YY.

182 Describe the translation that moves shape YC to shape YX.

183 Describe the translation that moves shape YX to shape YZ.

184 Describe the translation that moves shape YZ to shape YW.

185 Describe the translation that moves shape YW to shape YV.

186 Describe the translation that moves shape YV to shape YU.

187 Describe the translation that moves shape YU to shape YT.

188 Describe the translation that moves shape YT to shape YS.

189 Describe the translation that moves shape YS to shape YR.

190 Describe the translation that moves shape YR to shape YQ.

191 Describe the translation that moves shape YQ to shape YP.

192 Describe the translation that moves shape YP to shape YN.

193 Describe the translation that moves shape YN to shape YM.

194 Describe the translation that moves shape YM to shape YL.

195 Describe the translation that moves shape YL to shape YK.

196 Describe the translation that moves shape YK to shape YJ.

197 Describe the translation that moves shape YJ to shape YI.

198 Describe the translation that moves shape YI to shape YH.

199 Describe the translation that moves shape YH to shape YG.

200 Describe the translation that moves shape YG to shape YF.

201 Describe the translation that moves shape YF to shape YE.

202 Describe the translation that moves shape YE to shape YD.

203 Describe the translation that moves shape YD to shape YC.

204 Describe the translation that moves shape YC to shape YB.

205 Describe the translation that moves shape YB to shape YA.

206 Describe the translation that moves shape ZA to shape ZZ.

207 Describe the translation that moves shape ZB to shape ZY.

208 Describe the translation that moves shape ZY to shape ZX.

209 Describe the translation that moves shape ZY to shape ZW.

210 Describe the translation that moves shape ZW to shape ZV.

211 Describe the translation that moves shape ZV to shape ZU.

212 Describe the translation that moves shape ZU to shape ZT.

213 Describe the translation that moves shape ZT to shape ZS.

214 Describe the translation that moves shape ZS to shape ZR.

215 Describe the translation that moves shape ZR to shape ZQ.

216 Describe the translation that moves shape ZQ to shape ZP.

217 Describe the translation that moves shape ZP to shape ZN.

218 Describe the translation that moves shape ZN to shape ZM.

219 Describe the translation that moves shape ZM to shape ZL.

220 Describe the translation that moves shape ZL to shape ZK.

221 Describe the translation that moves shape ZK to shape ZJ.

222 Describe the translation that moves shape ZJ to shape ZI.

223 Describe the translation that moves shape ZI to shape ZH.

224 Describe the translation that moves shape ZH to shape ZG.

225 Describe the translation that moves shape ZG to shape ZF.

226 Describe the translation that moves shape ZF to shape ZE.

227 Describe the translation that moves shape ZE to shape ZD.

228 Describe the translation that moves shape ZD to shape ZC.

229 Describe the translation that moves shape ZC to shape ZB.

230 Describe the translation that moves shape ZB to shape ZA.

Maths skills and topics are grouped in our Schemes of Work, ensuring progression and coverage in your teaching.

Worked examples and optional digital resources help support learning.

**Worked example**

Reflect the blue shape in the mirror line.

Draw a line from each vertex to cross the mirror line at right angles. Extend the line the same distance on the opposite side of the mirror line to find the vertex of the image. It might help to turn your paper so the mirror line is vertical.

# Exploring Science for iLowerSecondary Science

This new course is arranged by subject (Biology, Chemistry, Physics) or by Year group (7, 8, 9), and is designed specifically for international students using real-world science to spark their curiosity and inspire the next generation of scientists.

It provides the specific skills needed to progress to International GCSE, along with complete coverage of the Edexcel iLowerSecondary curriculum and English National Curriculum objectives.



**SCIENCE** iLowersecondary

The following document provides a suggested order of teaching. Please note that the order topics are taught within a year group is open to change depending on the needs of students or of a particular region (for example different regions may want to move topics around plants to their growing season).

Topic	Supersecondary science objectives	Activities
Static Electricity	<p><b>PS.2.1A</b> Know the structure of an atom in terms of the central nucleus containing positively charged protons (and neutral neutrons) with negatively charged electrons moving around it.</p> <p><b>PS.2.1B</b> Understand how different insulating materials can be given different charges when rubbed with a cloth.</p> <p><b>PS.2.1C</b> Know that a charge of static electricity can build up when different materials rub together and that static electricity can cause small electric shocks.</p> <p><b>PS.2.1D</b> Know that when a charged object comes near to another object, they will either attract or repel each other. If the charges are the same they repel. If the charges are opposite they attract.</p>	<p>Recall how objects can be given a charge of static electricity, and describe some of its effects. Describe the kinds of materials that can and cannot be given a charge of static electricity. Recall the two types of charges and their effects on each other; use ideas about attraction and repulsion to explain electrostatic phenomena involving:</p> <ul style="list-style-type: none"> <li>repulsion between like charges; explain why a conducting object cannot be given a charge of static electricity; state what is meant by electric field, and recall the shape and direction of the electric field around a charged object; describe the effect of an</li> </ul>

The linked Scheme of Work helps you to use Exploring Science to create your own exciting lessons.

## 7C THE SKELETON

WHAT ARE THE FUNCTIONS OF THE SKELETON?

People who do sport for a living need to get treatment quickly if they are injured. Athletes who spend months on building specialist treatment centres to ensure their players get the best possible treatment.

### Bones

Many people think that bones are not living, but bones are living organs. They grow as we grow and repair themselves if they fracture (break). Bones are hard and strong so that they can stand up to hard knocks and pressures. They are also light so they can be moved easily.

A common building material which looks like bone and is made of the same material is concrete.

**FACT** Bones are made of about 25% water and 75% bone tissue. If you break a bone, it will heal, but it will be weaker.

### Support

The bones in your body form your skeleton, which supports C. Your skeleton makes sure that your body stays in shape and also supports your body. The skeleton is made up of smaller bones called vertebrae and is the human body's main support. Some bones help to support organs. For example, your lungs, which collapse without your ribs.

### Protection

Some bones protect organs in the body. For example, the skull protects the brain. The skull is actually made of 22 bones that are joined by fibrous joints.

**FACT** The skull bones in the body are the only bones that do not move. If you break the skull, it is a serious injury.

### Movement

Bones need to be able to move. A flexible joint is a joint where two bones meet. The bones in a flexible joint are joined by muscles, which are attached to the bones. Ligaments hold the bones in a flexible joint and also connect to a deeper tissue called cartilage, which holds them close but not too tight. Flexible joints can be damaged when playing sports. A sprain occurs when a ligament is stretched or torn. Sprains can cause dislocations, in which bones are pulled away from their normal position. When people pull muscles, either a muscle or the tendon that connects the muscle to a bone gets a small tear (a strain).

**FACT** The bones in your body form your skeleton, which supports C. Your skeleton makes sure that your body stays in shape and also supports your body. The skeleton is made up of smaller bones called vertebrae and is the human body's main support. Some bones help to support organs. For example, your lungs, which collapse without your ribs.

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Thank you for your time

## Learn more...

Find out more about **iPrimary** at:  
[qualifications.pearson.com/iprimary](https://qualifications.pearson.com/iprimary)

Find out more about **iLowerSecondary** at:  
[qualifications.pearson.com/ilowersecondary](https://qualifications.pearson.com/ilowersecondary)

Find out more about **International GCSE** at:  
[qualifications.pearson.com/en/qualifications/edexcel-international-gcses.html](https://qualifications.pearson.com/en/qualifications/edexcel-international-gcses.html)

Find out more about **International A Level** at:  
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# Q & A





Pearson