

# KESTEVEN AND SLEAFORD HIGH SCHOOL

## Geography Scheme of Learning

### Year 7 – Term 2/Unit 2– Learning through Ordnance Survey Map skills

#### Intent – Rationale

The intent is to introduce and/or consolidate knowledge of map skills on Ordnance Survey 1: 25,000 and 1: 50,000 maps. Skill taught include locating four and six figure grid references, measuring distance, reading scale, direction and height. We also introduce student to the 'Digimaps for Schools' software to allow them to identify and explore their local area and eplaces in the world using 'Google Earth'.

<b>Sequencing – what prior learning does this topic build upon?</b>	<b>Sequencing – what subsequent learning does this topic feed into?</b>
<p><b>KS2</b> - use the 8 points of a compass, 4- and 6-figure grid references, symbols and key (including the use of Ordnance Survey maps)</p>	<ul style="list-style-type: none"> <li>• GCSE Geography – papers 1 and 2 require ability to interpret OS maps (grid references, scale, height, direction)</li> <li>• Google Earth – revisited in Y9 studying the Horn of Africa</li> <li>• Digimaps software – used throughout KS3, KS4 and KS5 to support fieldwork</li> <li>• Duke of Edinburgh Award Scheme expedition planning (optional extra-curricular in Y9)</li> </ul>
<b>What are the links with other subjects in the curriculum?</b>	<b>What are the links to SMSC, British Values and Careers?</b>
<ul style="list-style-type: none"> <li>• History – how OS maps change through time</li> <li>• Maths – using ratio to calculate scale on maps</li> </ul>	<ul style="list-style-type: none"> <li>• SP3 – creative map drawing</li> <li>• SP2 – enjoyment of world around them (Google Earth)</li> <li>• Careers h) IT and computing skills</li> <li>• Careers- i) Creativity – map drawing</li> </ul>
<b>What are the opportunities for developing literacy skills and developing learner confidence and enjoyment in reading?</b>	<b>What are the opportunities for developing mathematical skills?</b>

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## FROM THE LIBRARY:

*Ariel Atlas Of Great Britain-912*

*Essential Atlas Of the World-912*

*Oxford Student Atlas-912*

*Map Work Skills and Local Issues-912*

*The Map Book; Barber,P-012*

- Scale – using ratio to calculate distances on maps
- Height differences from contour lines/ trig points/ spot heights

## Geography Scheme of Learning

### Year 7– Term 2/Unit 2/ Learning through Ordnance Survey Map skills

#### Intent – Concepts

##### What knowledge will students gain and what skills will they develop as a consequence of this topic?

###### Know

The features and characteristics of Ordnance survey maps and aerial photographs

How to use Digimaps software

How to navigate Google Earth

How to recognise map symbols, calculate distance, measure height, provide direction and locate features using grid references on Ordnance Survey maps

###### Apply

Knowledge of map symbols to locate and identify features on Ordnance Survey maps

Knowledge of four and six figure grid references to locate features on Ordnance Survey maps

Knowledge of 16 compass points to describe direction on a map

Knowledge of direction to follow a compass bearing

Knowledge of measuring height on Ordnance Survey maps to describe the relief of the land

Knowledge of 'Digimaps' software to produce an annotated map of the local area

Knowledge of Google Earth to identify and describe landmarks

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<b><u>Extend</u></b>	
Knowledge of scale and ratio to calculate distances on Ordnance Survey maps Knowledge of map skills (grid references, scale relief, direction) to produce a walking route and design an imaginary island	
<b>What subject specific language will be used and developed in this topic?</b>	<b>What opportunities are available for assessing the progress of students?</b>
grid reference, northings, eastings, ratio, contour line, triangulation pillar, spot height, ratio, scale, relief, aerial photo, key	<p>Assessment will take 3 main forms:</p> <ul style="list-style-type: none"> <li>• In starters, plenaries and during the lessons – formative assessment to reinforce prior knowledge e.g. word searches, bingo, memory recall, definition matches etc.</li> <li>• For homeworks-tasks that require students to research new knowledge</li> <li>• Summative assessments: multiple-choice, one mark answers, extended answers in test or exam conditions or as end-of-unit tests. This could include the imaginary island drawing which demonstrates an understanding of many map skills. Also the mini assessment (lesson 5) on four and six figure grid references</li> <li>• Key word meaning and spelling tests are included as part of the focus on building a knowledge bank of geographical vocabulary.</li> </ul>

## **Intent – Concepts**

Lesson title	Learning challenge	Higher level challenge	Suggested activities and resources
Types of map	Can I describe physical and human features on identify Ordnance Survey maps?	Can I draw a sketch map of KSHS from an aerial photo?	Powerpoint 1 Aerial photo KSHS

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			OS maps past and present of Sleaford Geog. 1 4 <sup>th</sup> edition page 30
Map symbols and direction	Can I recognise symbols and grid lines on OS maps and describe direction using a compass?	Can I use a compass in the school grounds to follow a bearing?	Powerpoint 2 Compasses (ask SL) Geog. 1 4 <sup>th</sup> edition pages 36-37 Map symbol homework sheet
Annotated map of the local area	Can I use the Digimaps software to produce an annotated map of my local area?	Can I describe how my local area has changed in the last 100 years in terms of number of houses, size and human features?	Powerpoint 3 Geog 1 4 <sup>th</sup> edition pages 138-139 for OS map symbols THE IT ROOM WILL NEED TO BE USED FOR THIS TASK
Four and six figure grid references	Can I locate four and six figure grid references on an OS map	Can I provide four and six figure grid references to identify features on an OS map	Powerpoint 4 Geog 1 4 <sup>th</sup> edition pages 32-33 and 38-39
Four and six figure grid references	Can I consolidate my knowledge of reading and providing four and six figure grid references to identify features?	Can I interpret local 1:25,000 OS maps to identify features	Powerpoint 5 Battleships grid Geog 1 4 <sup>th</sup> edition pages 32-33 and 38-39 OS Explorer 1:25,000 maps – ask SL for maps and extension sheets. Mini assessment task
Interpreting the scale on a map	Can I draw a plan of my bedroom and use ratio to include a scale	Can I calculate distances using scale as a ratio	Powerpoint 6 Geog. 1 4 <sup>th</sup> Edition pages 26-27
Measuring distance on a map	Can I use scale to measure straight line distances (as the crow flies) on Ordnance Survey maps	Can I use scale to measure distances along roads on Ordnance Survey maps	Powerpoint 7 Geog. 1 4 <sup>th</sup> Edition pages 34-35

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Measuring height on a map	Can I explain the different ways of measuring height on a map	Can I identify and interpret contour patterns to describe the relief of the land	Powerpoint 8 Geog. 1 4 <sup>th</sup> Edition pages 40-41 Worksheet – ask SL for paper copy
Creative application of map skills (2 lessons)	Can I design my own island by following instructions about four/six figure grid references, direction, distance, symbols, key and scale	Can I provide visitors with a tourist information sheet to welcome them to the island and to explain to them how to see some sites. This will include <i>written direction and a sketch map</i>	Design my own island instruction sheet A3 paper
Introduction to Google Earth/Google maps	Can I use Google Earth/Google maps online to locate and identify human and physical features in my local area	Can I use Google Earth/Google maps to identify human and physical landmarks and to acquire a sense of place	Powerpoint 10 Google Earth online – IT ROOM NEEDS TO BE BOOKED Worksheet for Google maps task
Map skills assessment			Map skills assessment task sheet Sleaford map