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Glossary of key words

Word	Form	Definition i معطقة وتبدأ أو Definition
خدو ^ر boundary	noun	something that shows where one area ends, and another begins
contour	noun	المخطط أوالخافة الخارجية لشيَّ ما the outline or outer edge of something
device	noun	a machine or piece of equipment that has been made for a certain task
direction	noun	the course or path on which something is moving
easting (<u>east</u>)	noun	the line that shows the eastward distance on a map; the first measurement in a grid reference الأول في مرجع المشبكة .
elevation	noun	the height of a place ذروة المكان/ ارتعاع مكان
feature / aplie	noun	an interesting or important part of something الجزء المعم سن مشيخ ما
grid	noun	a pattern of lines that cross each other to form squares on a map تقاطع form squares on a map بفقاط التقاطع
هدد / محد د locate	verb	to find the place or position of something للعثور مع مكان/ معضع مشي ما
با تجاه المستسال northing (North)	noun	the line that shows the northward distance on a map; the second measurement in a grid reference القاري في مرجع المصبحة
reference	noun	المال المال المالي ا النظري شي المراجعون على معلوما ب

Word	Form	Definition
scale معناصم	noun	the relationship between the distances on a map and the actual distances
situation	noun	a place or location وتع / مدلنه
رمز symbol	noun	a picture that is used to describe key information on a map
terrain in internation	noun	different types of land من عنا الخريطة المنابع
topography	noun	the art of making maps that show the height and shape فن مسم الزائط الذي يُظعر
	دقيف لسطح الأرض	الارتفاع والشكل - رسم

135 | Glossary of key words - Health Sciences - G12 - Term 1

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4.1 Maps and their uses

مقدمة إلى الخرائط Introduction to maps



Even in a modern age, we can still find ourselves getting lost. Over the past 20 years, technology has moved forwards at a fast pace. Today, all we need do to find out where we are, is to tap on a phone app. It can give us an exact location of where we are.

حق في عصرنا الحالي مدنجد أنفنسنا تا مُجهن . في ادهد سنة الماحنية سَطورت السَقنيات و أوج كل ما علينا معله هو طبغطة واحدة على نظبيت الموابل ليعطيك اعكانه بدقت.

الزائط: - هي العور أوالرسوم البيانية المقاسة التي تعرف العرف الأنفار، الجبال و بنواع المقام الحرف الألفار، الجبال و بنواع المقام الموالي معرف العرف الألفار، الجبال و بنواع المقام الموالي معرف العرف الألفار، الجبال و بنواع المقام الموالي معرف العرف الألفار، الجبال و بنواع المقام الموالي المقام على العرف العرف العرف العرف المعالي المعالي المعام الموالي المعالي Maps are scaled images or charts that show key features. Such as roads, rivers, mountains and streets.

Topography is the study of the shape and features of the surface of the Earth.

Topography and map reading are skills that have been used by people for thousands of years. Many were originally used to map the stars. As man began to travel, we began to draw what the land looked like. These would become the earliest kind of maps.

* التقاديس و الخزائط :-+ التفاريق مقراءة الخزائط هي المصارة التي امستغياما إلذا من قبل آلاف السنيت -



وتضارب : درامة محل م مرات طع المرحن .

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Before we look at maps and their use, work with the teacher and research what careers or activities would use a map. Write your answers below.

* Tourists *The sailors 3, but Being able to understand and read a map is a skill that is important in many careers. * إن العدرة مل علم الزائط مهمة في حيَّر مد الوطلاف مثل:such as: معندس إساحة

Surveyor

find

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xact

*

- a riel Engineering
- · Uniformed services الذمات الموهدة

Did you know

Knowing how to understand and read a paper map will help you during National Service.

* ها تعلم ان مجموا ستعاب الزائط سامد في في فدمات الوطنية.

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Map reading - G12 - Term 1 | 13/

4.1 Maps and their uses



Activity 2: Types of maps

Look at the pictures below and write down what the type of map it is. Try to describe what this type of map can be used for.

En colonix * street view * shows the traffic -11-1-x * Measuring distance - 6 LI ane * Reach you to the UZUS * Reach you to the UZUS right place you want NAME: Google Map * clarification of paths and roads ويصبح المسرات والطرق * Por traffic (Regulate traffic) لا تنظيم حركة المرور. هيئة الطرق والمواصلات ROADS & TRANSPORT AUTHORITY NAME: Roads & Transport Authority 4 1 ··· * To teach students * لتعليم الطلاب * Cocating countries i held 1 20 4 NAME: Earth map

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بداذكم نوم الخريفة ،





Maps come in different scales with the most common being 1:50,000.

This means that 1 centimetre on the map equals 50,000 centimetres (or 500 metres) on the ground. A grid on a 1:50,000 map is 2 cm x 2 cm (1km x 1km)

of the land.



The image above shows the same area in two scales. The grid on the left (1:50,000) will measure 2cm x 2cm but the grid on the right (1: 25,000) will measure 4cm x 4cm and is a lot more detailed. You can find the scale of the map on the front cover. والمن المنطقة في معتا مين المنطقة في معتا من المنطقة في معتا مين المنطقة في معتا مين المنطقة في معتا من المناطقة في معتا من المنطقة في معتا من المنطقة في معتا من المنطقة في معتا من المن المنطقة في معتا من المنطقة في معتا من المناطقة في معتا من المناطقة في معتا من المناطقة في معتارة من المنطقة في معتا من المناطقة في معتالة من المناطقة في معتالة في معتالة في معتالة في معتالة في المناطقة في معتالة في معتال

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need. A long car journey would need a large-scale map, but, a hiking trip of 10km would need a detailed one.

Note:

the images of the maps in this book may not be to scale. فر لا تكون جور الخراد في عذا الكتاب قاطة للقرامي.

Tools for map reading and navigation When map reading, we will need to use other tools to help us navigate.

التسغل

To find a way from one place to another

Navigate Verb des

A map will help to find a location by looking like the ground around us. Once we begin to move from one point on the ground to another we need tools to help us get Aap reading - G12 - Term 1 | 1 there.

* تساعد الخريطة علم العثور علم الأماكنة من خلال التظر في الأرجف هول. حدما تبدأ بالترك مذ مكانك معلى تستحرك معك ا فنقطة فوملك (ف جريك

لإيحاد فمريق منه مكمان إلى آخر.

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الإائط و استعدام م 4.1 Maps and their uses



In pairs, look at the four pictures below. Write down what you think each picture is Try to explain how they can help you read a map.



Compass

For directions. - 6610



For time and directions



Magnifying glass

To read the names of cities لعرادة أسماء المدن

يكرة



protractor ales لعكاس خطوط الصول والعرفن

To measure Latitude and

ليتنديس الومّت والاتماهات By understanding how to use a map, and what tools we have available, we can make sure we don't get lost. We should always choose the right may for the task.

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Write a short speech about what a map is and its uses. Once finished, be prepared to share your answers with the class.

Corright - Ministry of Education - United Arab Eministry

الرموز الرئيسية والتخطيط 4.2 Key symbols and layout بولت تعلما أخالدينا عدة أنواع منتلغة مذ الإانط . بعضعا رقمي (م) الخطار و بعضها خرائط ورقية . علال هذه الوحدة سوف منرسو أكثوعنه الخرائط الورقية .

We have learned that we have several different types of maps. Some are digital (On-line), Some are paper maps. During this unit, we'll take a closer look at paper maps. We will learn what a map is and what the map symbols mean.

Knowing what the information on a map means will make reading a map easier.



Key parts of a maps



A map has many different parts which, when combined, become a tool for navigation. You will find symbols, images and detailed information on most maps.

As with all skills, the more you practise the better you will get.

A map key has many symbols. They all represent a real feature on the ground.

Symbols will include roads, woods, buildings, rivers and mountains or places of interest.

9. ale 21 05-0 Le Activity 5: What makes up a map? rogether with the teacher look at each picture and fill in as much information about what you see. Each picture covers a part of a map. * انظر إلى العدر المدجورة أدنا ، واكتر ما تراه من معلومات . كل جورة مترز جزء مع This part of the map is Known as the KEY. Here you will find symbols which represent real features. What do you think the key features could be? * هاذاج دمن الخريصة سما (المعتاح) متعد منيه كل الرموز الي تر مراد الخطة. ط رايك في هذه الميرة ! I - Make it easy to read the map (ide it is is dei). 2_ Easy to know the map topon raphy (de is cur, he are)-* على حامة الحريطة عكمات أى ترى معلومات أيضًا. الأعداد التي ستاهدها بالحول إلعاع Along the edge of the map, you will see a lot of information. والارقاع الذي تعلى عاطون الجانب تسم وسنالم (شالية) The numbers you see running along the bottom are known as Eastings, and those running along 53°N the side `are known as Northings. 47 What else do you see? Map reading - G12 - Term 1 | 145 46 + latitude and longitude to see to tocation of cities and countries 42 41 * خطول الطون والعرف لمعرفة عواقة المدت والدول Copyright © Ministry of Education - United Arab Emirates



North is at the top of the map and is one of the primary points of a compass.



ماصفاس الحريطة ؟ ? What scale is this map

How many centimetres on the ground does the 1 Sopier to contact

1:50,000 -> 2cm X:2cm

The scale will also let you measure distance in kilometres. This will help you when planning a journey.

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الشال والنقاط المشية. North and the cardinal points

cardinal points are a name given to the four points on a compass. These are the four main directions. When navigating it's very important to know what direction you are ع النقاط الريشية : - هوالا سم الذي يطلق ما التقاط الأبع ما البوجلة . عد الستقل منه travelling.



حنون

about lette Points of a Compass

The four cardinal points are:

المم عدًا معرفة الاتجاهات.

•	North	いら
•	East	is_

- جور South
- Nest

Remember:

North is always at the top, South is at the bottom and use "WE" to remember where West (Left) and East (Right) go.

الخال داغاً للأعلى ، الجنوب للأسفل وكلية Weit للسار و tout عرى لل



Between the cardinal point are:

استاں الشری

الجنوب المشيري

الجيوب الغربي

المستمال السغربى

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- North East
- South East
- South West
- North West

Map reading – G12 – Term 1 | 147

4.2 Key symbols and layout Activity 6: Fill in the blank directions Look at the compass below. From the previous information, try to fill in all the cardinal points. Remember to start with the for main directions. * املا الفراغات بالاعكامات المناسبة شمال North Nourth west المستمال الشرقي North East 62 west East الجنوب الشرقي الجؤب الغربى South East South west South جنوب Copyright © Ministry of Education – United Arab Emirates The state

4.2 Key symbols and layout

All maps will have a key which gives us general information. Symbols are then used to represent a real thing on the ground.

* لجيح الخرائط مفتاح • الرموز التي تظهر في المغتاح لتبين شيَّ عا الأراف *

المفتاح فطع :-

A map key will have symbols that represent different things:

- · Roads and tracks الطرف والمقطو دات
- Public transport النقل العام
- · Rivers and lakes
- · Buildings is us
- Topographical features النقاري النقاري
- · Places of interest



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حيف تقرأ الخرائط؟ 4.3 How to read a map و فصما ما هي الخرائط ، والا لا مسوف نتعلم كيف نقرأ الزائط مشكل محسيح

Now that we understand what a map is, let's look at how to read it correctly. Usually you will need to find ether your location or your destination. Sometimes you will need to find someone's location from coordinates you have been given, like in a search and rescue situation.

Coordinates محمومة الأرقام تستعدم لتحديد موقع نعطت ما الخرطية A set of numbers that is used to locate a point on a map Noun

To do this you will have to use the eastings and northings numbers. When you read or give a grid location, you should always give an easting first followed by a northing.

First, you will need to locate your easting number. To do this you must work along the bottom of the map from left to right. Do this until you are in the correct position on the map. Then you should move in an upwards direction to find the northing position.



موقع المستوكة 14 أحام Pour-figure grid location

In this picture below, you can see a person walking along a track.

to write down a four-figure grid, read from left to right and use the easting grid line number first الم اليسا رارى اليمين مستغومًا 47

This would be 41.

Illy

эq ch

Dr

e

9

You then need to write down the northing grid line number. ما الرقم الموجود (من المرجود) استحد م الرقم الموجود) في شبكة المشعال



This would be (46)

The four-figure grid location always points to the bottom left corner of the grid square you want to locate.



The walker's location on a map would read: Grid: 41 - 46.

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+ الديمة حبرًا في قراءة الخرائط . تخيل أن أحد المحد قائل قد أُحسب خلال رحلة بالديمة مهمة حبرًا في قراءة الخرائط . تخيل أن أحد المحد الطوارئ في المعاللة . استكثابية . شكرة مذ أرجة (رخام ستجلب حدمات الطوارئ في العمالة . حد الحد لا يكون جيد أربعا يكمني . لكنه شبكة منه كا أرقام ستجليم خلول 100 متر بما حذ الحد لا يكون جيد أربعا من مات six-figure grid location يكفي لإيجار حديقك بسجولة.

Accuracy is important in map reading. Imagine one of your friends is injured while out on an expedition. A four-figure grid will bring the emergency services into a 1km x 1km orea. This may not be good enough. Giving a six-figure grid location will bring them within 100 metres. This is close enough to easily find your friend.

Six-figure grid references



میکة مذ کارتمام با يجب أن تكون مادرًا مع معتسم جميع جوان المربع إلى 10 أجزاد متسادية .

In your head, you should be able to divide all sides of the square into ten equal parts. This adds another number to each of our grid locations, making it six figures.

Here we have Grid: 625 -333



4.3 How to read a map



ctivity 9: Be accurate

Look at the picture below. There are four locations marked. **A**, **B** and **C** have been broken into 10x10 squares. **D** has been left for you to try and work out. Write down the six-figure grid location for all four squares.





You may need to get from point A to point B. On the map, it may look like a short distance. However, in reality, there is a huge mountain in the way. If you set off in the most direct direction, (red arrow) you could end up in a lot of trouble. Climbing a mountain without the right equipment or training can be fatal.

Sometimes the shortest route is not always the best option. Taking the longer route (green arrow) around the mountain would be safer. It may mean travelling for a longer distance, but in this case, it is the smart thing to do.

From this example, you can see how knowing the terrain before starting to plan your journey can be a big advantage.

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contour lines are brown lines that are connected on a map. They look like lots of misshaped circles. Some are just lines, some have numbers attached to them.

, toi 10 01 5 the bods

خطوط المعد مح/الرقري

(الخط الكونتورى)

contour lines

The numbers on the lines will show the height in metres above sea level.

he space between each line will represent ther 5 metres or 10 metres. This depends on the scale of your map.

A



The closer the lines the steeper the ground is at that point. This is how hills and mountains are shown on maps.

The image above shows the link between a feature known as a 'Saddle' and how it would look on a map.

The blue lines show the area that the contour line represents.

This feature is called a saddle because the 2 hills, which are close together, look like a horse's

* كل امترب الخطوط كل كانت الأرض أتحر حدة عند تلك المنطقة (ان أنها تعتل منفقة جال) (أراليكدل) ، توجرح الصورة أعلاد الرابط بين اجدى الميزات المعرمة باسم السيري وتحيف تطعر ما الخرطة - توضح الخطوط الزرقاد المنطقة الما ممتلعا الخط الكمنتوري . تسمى مرج لأنصابكون عبارة عن تلقيق (وتكول) وكيه من بعضها واله يتدومكانها سرج معان-

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Being able to see in your mind how a landscape will look by reading contour lines is a useful skill. This will help you to plan the best route for a journey, even before you leave your home.







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