UKS2 Fieldwork and map skills

Orienteering Learning Module Key Stage 2



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- 1. The content has been written and informed by:
 - the principles of instruction.
 - cognitive load theory.
 - retrieval and spaced practice.
 - sequence and curriculum connection.
 - dual-coding.
- 2. The knowledge organisers are written for children, not adults.
- 3. The quizzes are designed to be used cumulatively and not as a start and end test. We embrace the teach, test, retrieve model.
- 4. Sentence case is not used in the knowledge notes as we want children to read and rephrase the content not merely copy it.
- 5. Knowledge notes are designed to reduce the split-attention affect and can be placed on a double- or single-page layout. They also can be placed appropriately to support left or right-handed children. They can last more than one lesson.
- 6. This is a **lite version** and not all images in the resource section are displayed as we have a licence for schools within the curriculum partnership.
- 7. Previous and future learning modules complement the content in this pack. We don't view learning as an event, we prefer to see it as a cumulative and coherent sequence.

I hope you take inspiration from the content as well as this Learning Module. Use them to teach children about the wonderful outdoor spaces we can safely explore through orienteering.





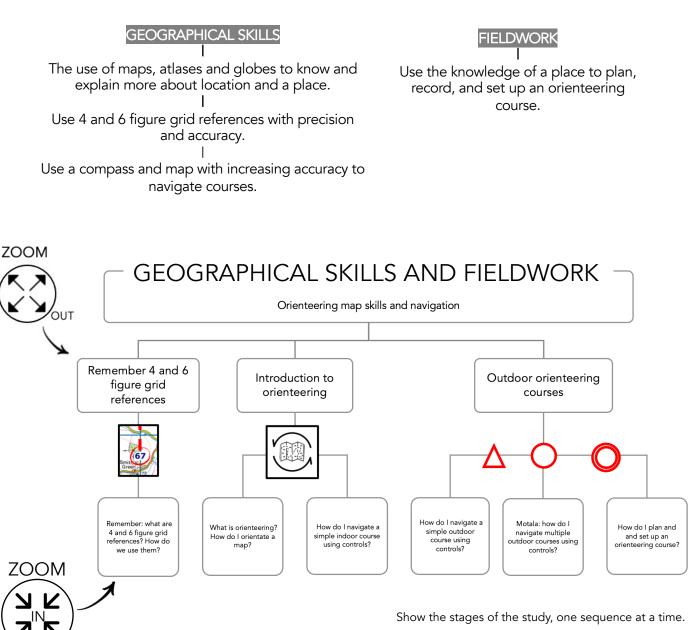
INTRODUCE Orienteering J Y6 Orienteering map skills and navigation



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Curriculum navigation

Share the big ideas that you will be studying.



Show how the specific content relates to the big ideas.

Big Picture, Small Picture Adapted from Walkthrus by Tom Sherrington and Oliver Caviglioli

The big idea

Y6 Orienteering map skills and navigation

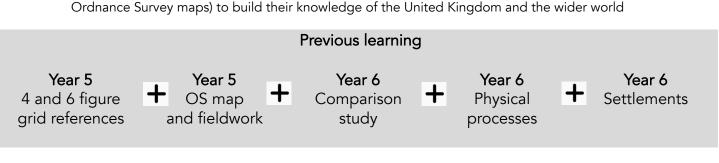




Y6 Orienteering map skills and navigation

Geographical skills and fieldwork

use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied use the eight points of a compass, four and six-figure grid references, symbols and key (including the use of





S	SUGGESTED DISCIPLINARY KNOWLEDGE – THINKING AS A GEOGRAPHER						
Place and Space			Environment and	Culture and diversity			
Q	(Relationship and interdependence) سحية	geography	sustainability	(Uniqueness)			
What new vocabulary can you use to describe the school grounds? How could orienteering help you understand more about how the space in a place is used?	How does map work and orienteering help you know and explain more about distance? Why is distance and connection important in orienteering?	How do you use physical and human features to help you navigate? How would you connect physical and human features with the word 'attack point'?	How can orienteering help you get to know the environment? What footprint does orienteering leave on the environment?	How could orienteering help you see and get to know new places? What places would you like to orienteer in? Why is that?			

Misconceptio	ons – learning traps pupils can fall into
X Not true	Teach this 🗸
You must have a compass to take part in orienteering.	Basic map skills enable participants to follow an orienteering course. You don't need a compass to begin with. As orienteering becomes more advanced, a compass will be essential.
Orienteering can only be done in forests and rural areas.	Orienteering is a sport that can be undertaken in the school grounds or in more isolated areas. It's best to learn the basics in a safe and known area.
Orienteering is only for boys.	Orienteering is a sport for all people: girls, boys, men and women. There are many types of orienteering events, including on foot, on mountain bikes, on skis and in wheelchairs.





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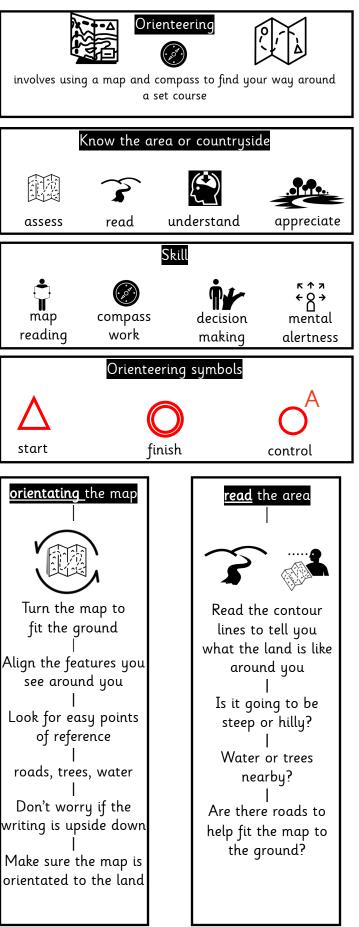
Knowledge Organiser

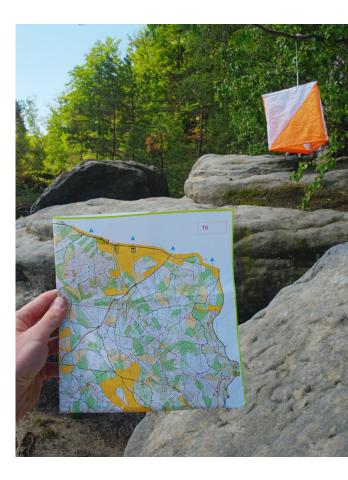


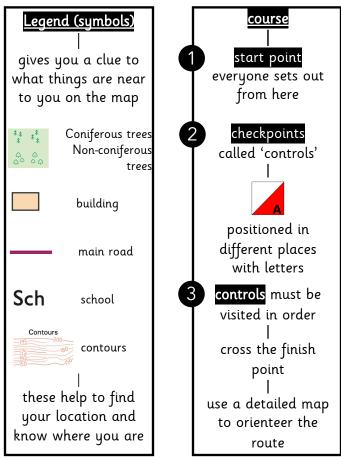
INTRODUCE Y6 Orienteering - map skills and navigation

Year

Term











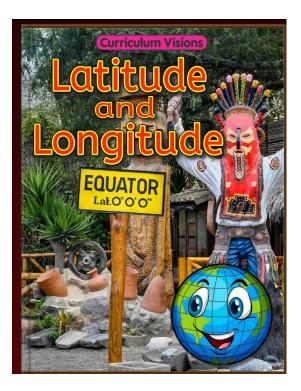


Y6 Orienteering map skills and navigation

Year 6 Summer Term



Curriculum Visions Resources and video books



Ordnance Survey – Map scale

https://getoutside.ordnancesurvey.co.uk/guides/understanding-map-scales/

Setting the map to the ground https://www.youtube.com/watch?v=pkIMXgaU7Hc

OS Map Legend (symbols on the ground)

https://www.ordnancesurvey.co.uk/documents/25k-raster-legend.pdf





Y6 Orienteering map skills and navigation

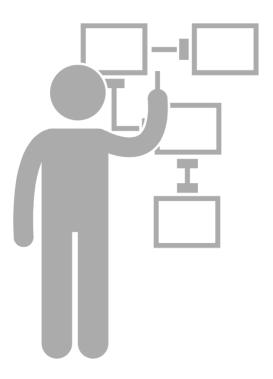
Year 6 Summer Term

Suggested foundational knowledge

that is essential to teach

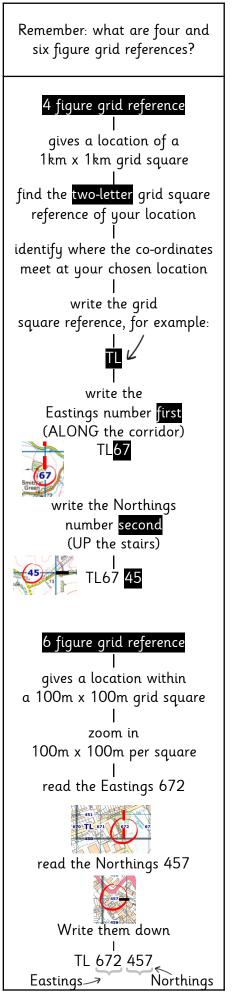
Suggested sequence	Learning question	Cı	ımulati	ve que	stions	from qı	uiz
DESIRABLE 1	Remember: what are 4 and 6 figure grid references? How do we use them?	1 - 6					
essential 2	What is orienteering? How do I orientate a map?		7 - 10				
essential 3	How do I navigate a simple indoor course using controls?			11 - 14			
essential 4	How do I navigate a simple outdoor course using controls?					-	
DESIRABLE 5	Matala: how do I navigate multiple outdoor courses using controls?						
DESIRABLE 6	How do I plan and and set up an orienteering course?						1 - 14
	Learning focus / question These can be taught over more than one lesson, if needed. Remember Connect, Explain, Example, Attempt, Apply and Challenge.						

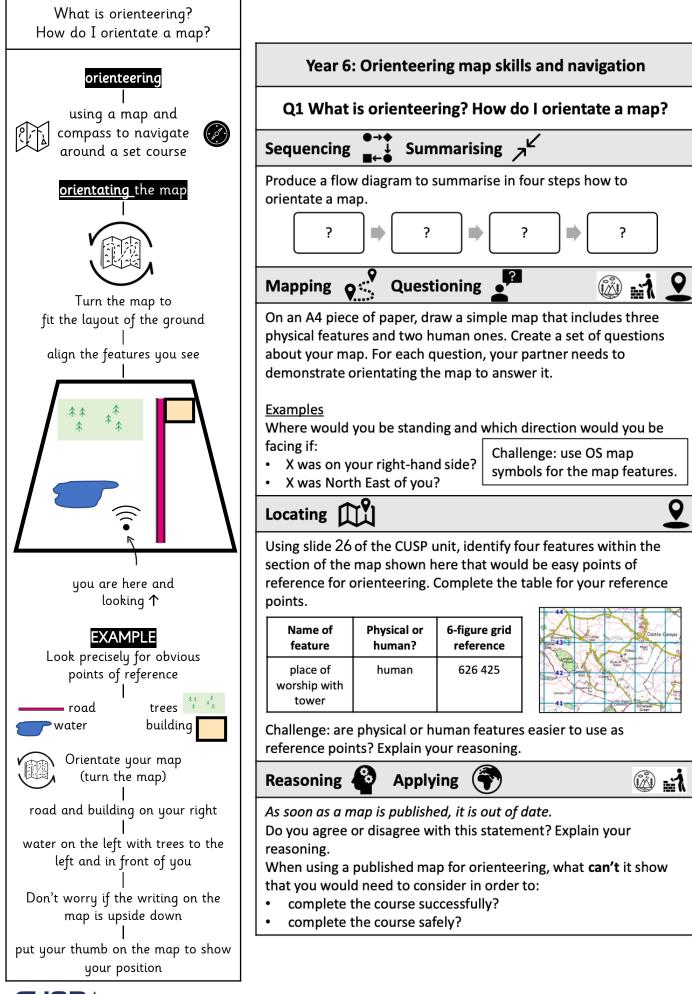




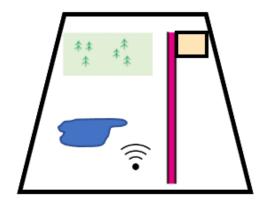
Knowledge notes for planning

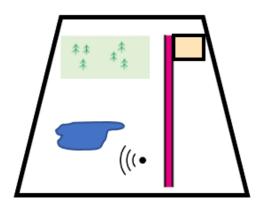


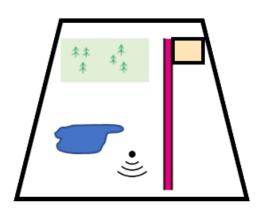


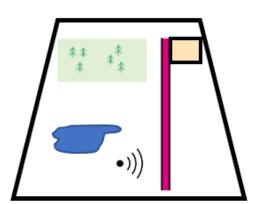




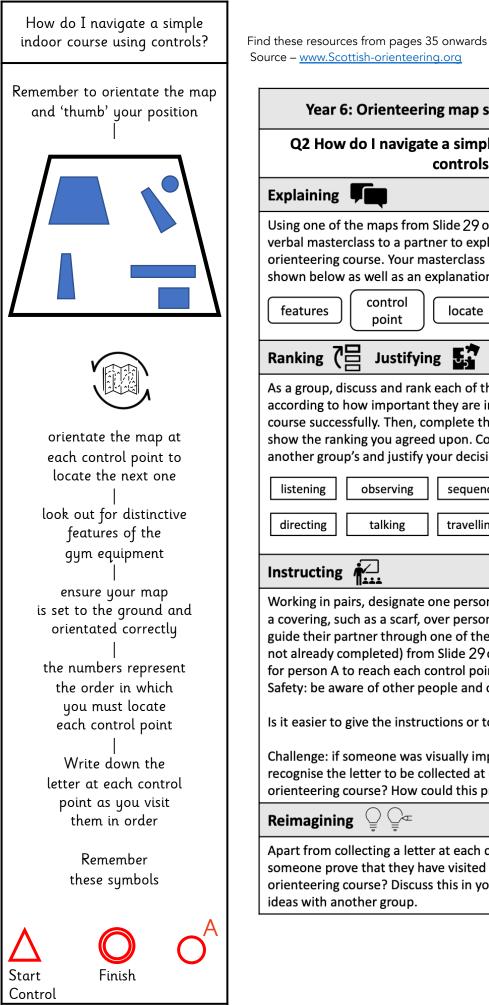












Source - www.Scottish-orienteering.org Year 6: Orienteering map skills and navigation Q2 How do I navigate a simple indoor course using controls? Explaining Using one of the maps from Slide 29 or 30 of the CUSP unit, give a verbal masterclass to a partner to explain how to navigate a simple orienteering course. Your masterclass must include the key words shown below as well as an explanation of the established symbols. control orientate features locate symbols point Justifying Ranking (' As a group, discuss and rank each of the skills shown below according to how important they are in navigating an orienteering course successfully. Then, complete the pyramid with the labels to show the ranking you agreed upon. Compare your version with another group's and justify your decisions to them. listening observing sequencing directing talking travelling Instructing Working in pairs, designate one person as A and the other, B. Place a covering, such as a scarf, over person A's eyes. Person B must guide their partner through one of the courses (which they have not already completed) from Slide 29 or 30 Give clear instructions for person A to reach each control point. Swap over. Safety: be aware of other people and obstacles when guiding. Is it easier to give the instructions or to follow them? Challenge: if someone was visually impaired, how would they recognise the letter to be collected at each control point on an orienteering course? How could this problem be solved? Reimagining Apart from collecting a letter at each control point, how else could someone prove that they have visited each control point on an orienteering course? Discuss this in your group then share your ideas with another group.

How do I navigate a simple course outdoors with controls?

Single Course

orienteer a single course

navigate your way to each control point

interpersonal skills



work as a team listen to each other

make decisions

map skills

orient the map to the ground

check your location (thumb the map)

choose an attack point (a large, easily found feature near to the control point)

move swiftly to the chosen control point

as a team

-record the control letter

Year 6: Orienteering map skills and navigation

Q3 How do I navigate a simple course outdoors with controls?

Comparing

How was navigating an outdoor course different from an indoor one?

What additional challenges did the outdoor course present?

Always, sometimes or never true: the control points on an outdoor orienteering course that are the furthest distance away are the most difficult to locate. Explain your reasoning.



Suggesting

For the outdoor course completed, list the attack points for each of the control points. Was it difficult to identify a specific attack point for any of the control points? If so, how could this be improved?

Control point	Attack point
1	school garden

On large, outdoor orienteering courses, there may not be a significant feature to use as an attack point. How do you think orienteers locate the control point in these situations?

Reasoning

- 1. Would you prefer to navigate an outdoor orienteering course on your own or as part of a team? Explain your reasoning.
- 2. List the advantages and disadvantages of navigating an orienteering course as part of a team of people.

Advantages	Disadvantages

Challenge: when working as a team, which do you think is the single most important interpersonal skill to have?

Evaluating

This is an example of an international orienteering flag.

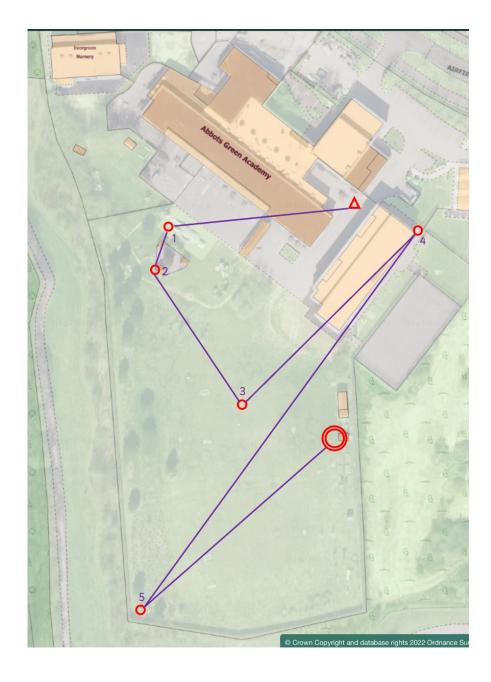
- Why do you think these colours were chosen?
- What combination of colours would you not choose for outdoor orienteering? Explain your reasoning.
- Are there any natural terrains around the world where these international colours may not be sufficiently distinctive?



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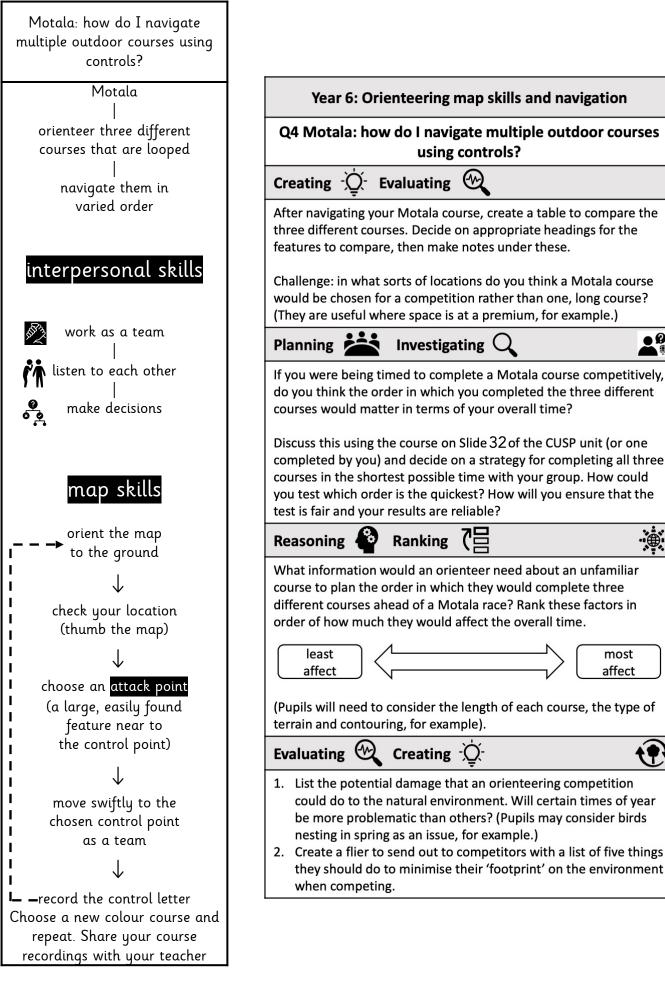
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Nemes			Controls		
Names	1	2	3	4	5
Alex, Lauren, Mary, Darren	К	V	Х	Р	Q

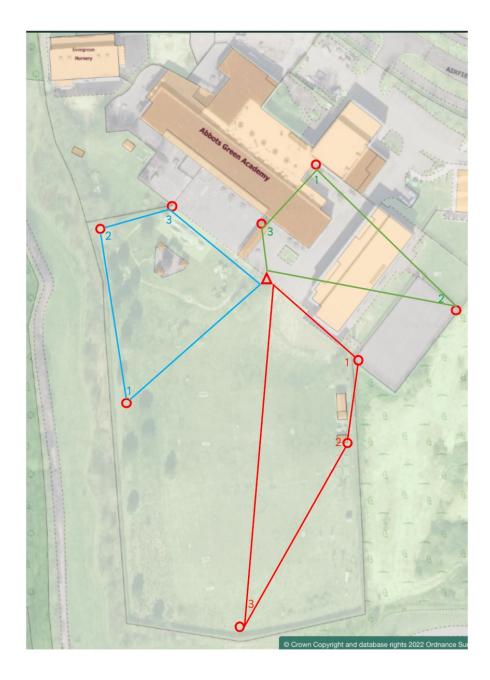




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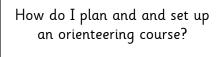
most

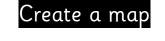
affect



Name	Red Course		Red Course Green Course		Blue Course				
Iname	1	2	3	1	2	3	1	2	3







Using Digimap for Schools

Print a map of the school grounds

Agree and select START and FINISH points

Mark the position of the7 control points on the map

Use large identifiable features to help position the controls

Create a table to record



Make up a 7 letter word without repeating letters (picture)

Randomise and allocate these letters to the control points

Position the controls on your course and give them a number on the map

Make some controls more visible and some hidden from view

Walk the course to check the accuracy of the controls on map

Give the course to another team

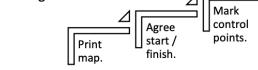
Can they accurately navigate the course and solve the word puzzle?



Q5 How do I plan and set up an orienteering course?

Summarising \mathcal{A}^{\nvdash} Sequencing

- 1. Complete the steps below to summarise how to plan and set up an orienteering course. Record each step in no more than three words. Check that the sequence is accurate.
- Working with a partner, take it in turns to hide one or two steps for the other person to identify without referring to the Knowledge Note.



Planning 🚢

Plan and set up an orienteering course that would be accessible to a wheelchair user. Think about:

travelling / distance between control points

being able to see the letter at the control point.



зh.

Walk or wheel the course to check on its suitability and make any necessary adjustments.

Designing 📝 Evaluating 🛞

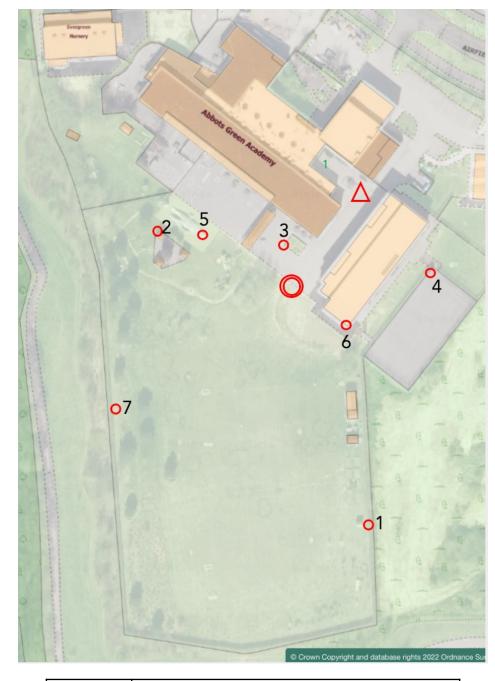
What do you think are the most important features of a successful orienteering course? Design a form for another team to use to evaluate these features in relation to your orienteering course once they have completed it.



• multiple choice (tick statements)

Persuading

The Olympic Committee has decided to include an additional event in the next games. Prepare a speech to argue the case for orienteering as an Olympic sport. What are the benefits of orienteering? How would you persuade your audience?



Master				Controls			
сору	1	2	3	4	5	6	7
	С	i	е	р	r	u	t

Namaa				Controls			
Names	1	2	3	4	5	6	7





Click on the link below to import this quiz to your Socrative account

https://b.socrative.com/teacher/#import-quiz/65751774

Cumulative quiz

It's most effective if you use these questions through cumulative quizzing

Lesson by lesson | Teach | Test | Teach | Test | Test





Year 6 Orienteering: map skills and fieldwork

- 1. A four figure grid reference identifies a...
- (A) 100km x 100km grid square.
- (**B**) 10km x 10km grid square.
- (\mathbf{c}) 1km x 1km grid square.
- (\mathbf{D}) 100m x 100m grid square.
- 2. A six figure grid reference identifies a...
- (A) 100km x 100km grid square.
- (B) 10km x 10km grid square.
- (\mathbf{c}) 1km x 1km grid square.
- (D) 100m x 100m grid square.
- **3.** What type of grid reference is this map showing?
- (A) Four figure grid reference.
- (B) Six figure grid reference.
- (c) Eight figure grid reference.
- **4.** What is the grid reference identified on the map?
- A) TL6645
- B TL6745
- **C**) TL6846

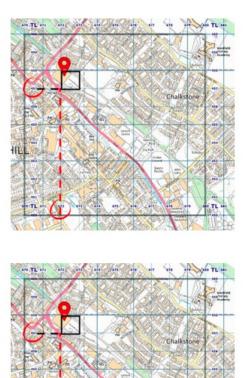


Name _____ Date _____

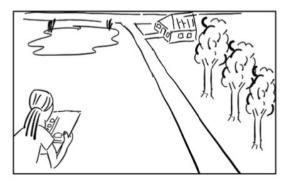
Score ____

- 5. What type of grid reference is this map showing?
- (A) Four figure grid reference.
- **B** Six figure grid reference.
- (c) Eight figure grid reference.

- 6. What is the grid reference identified on the map?
- (A) TL 671 454
- (B) TL 672 457
- 🔘 TL 673 458



- 7. Orientating the map means...
- (A) folding it up to go in your pocket.
- **B** to turn the map to fit the ground.
- **(c)** to keep the map pointing north.
- 8. When you have orientated the map, the writing must always be the right way up.
- (T) True
- **F** False
- **9.** This map is orientated to fit the ground. Do you agree or disagree
- (A) Agree the map is turned to fit the ground.
- (\mathbf{B}) Disagree the map is not turned to fit the ground.





- **10.** Which map is orientated correctly to fit the ground.
- (A) I think this map is orientated correctly and fits the ground.



(B) I think this map is orientated correctly and fits the ground.



- 11. In orienteering, controls are...
- (A) big cones to stop people going off the path.
- (\mathbf{B}) markers for the end of the course.
- (\mathbf{c}) markers that identify a precise location to navigate to.
- 12. In orienteering, this symbol means the...
- (A) Starting point.
- (B) Control marker.
- (c) Finishing point.
- 13. In orienteering, this symbol means the...
- (A) Starting point.
- (B) Control marker.
- **(c)** Finishing point.



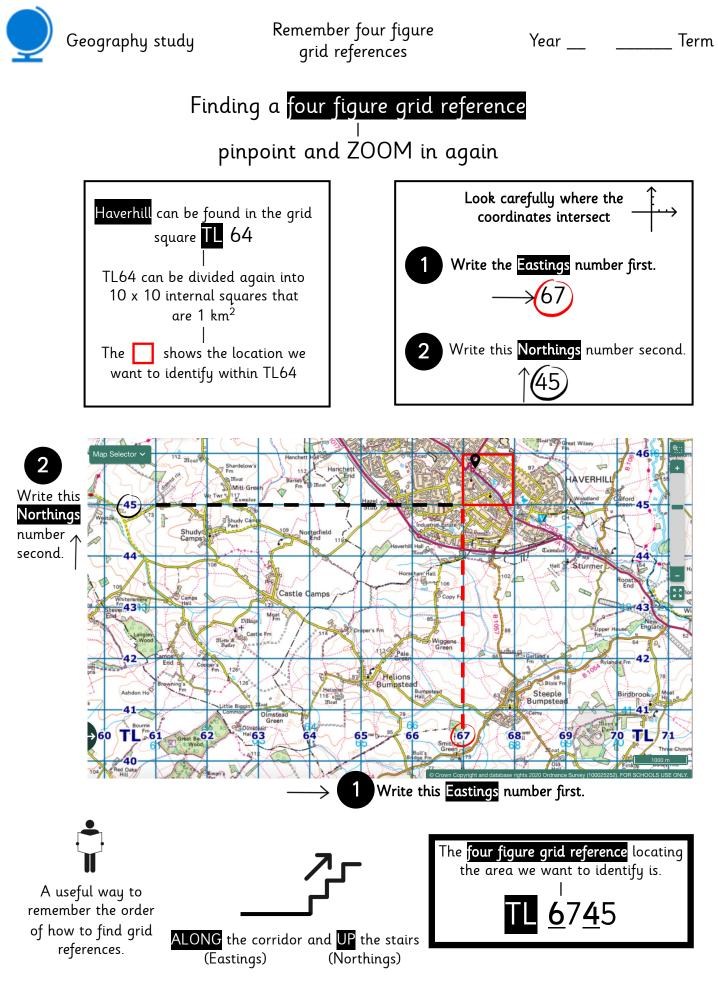
- 14. What is an attack point?
- (A) A hidden control point.
- (\mathbf{B}) The finish marker.
- (\mathbf{c}) A large and obvious feature near a control marker.





Teaching and learning resources



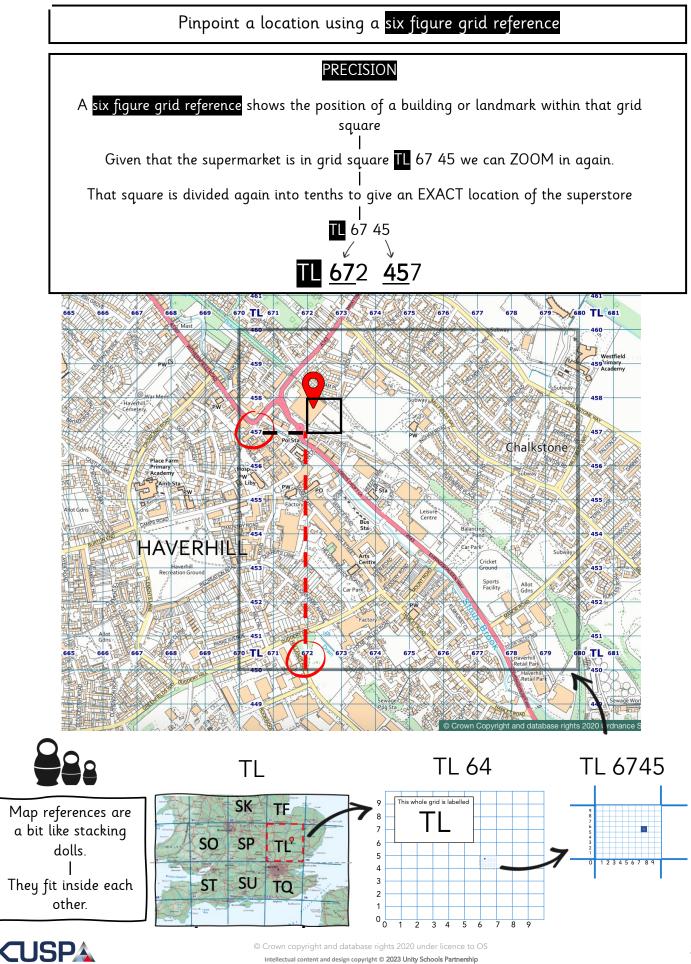






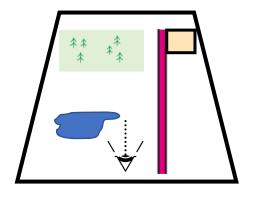
Year ____

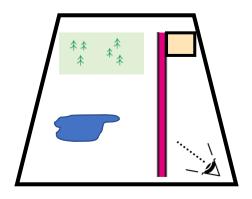
Term

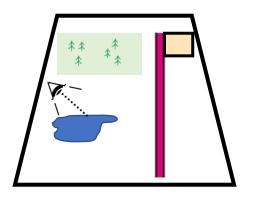


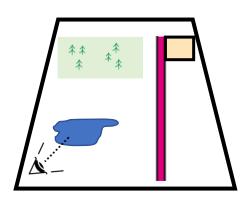
Orientate the map

describe the features of the land and their position to you





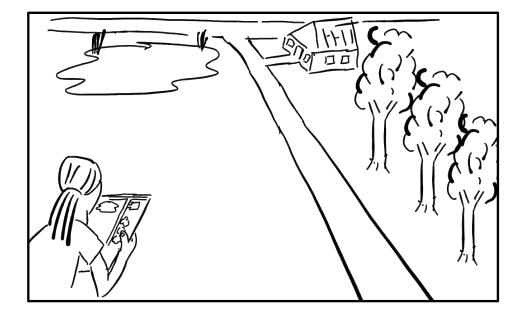




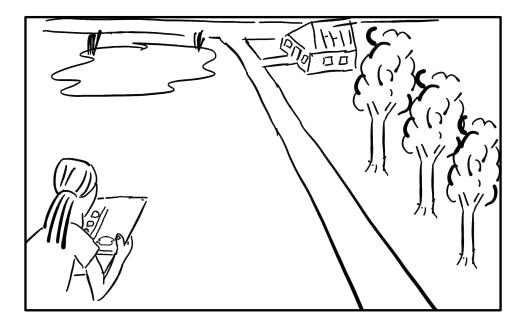




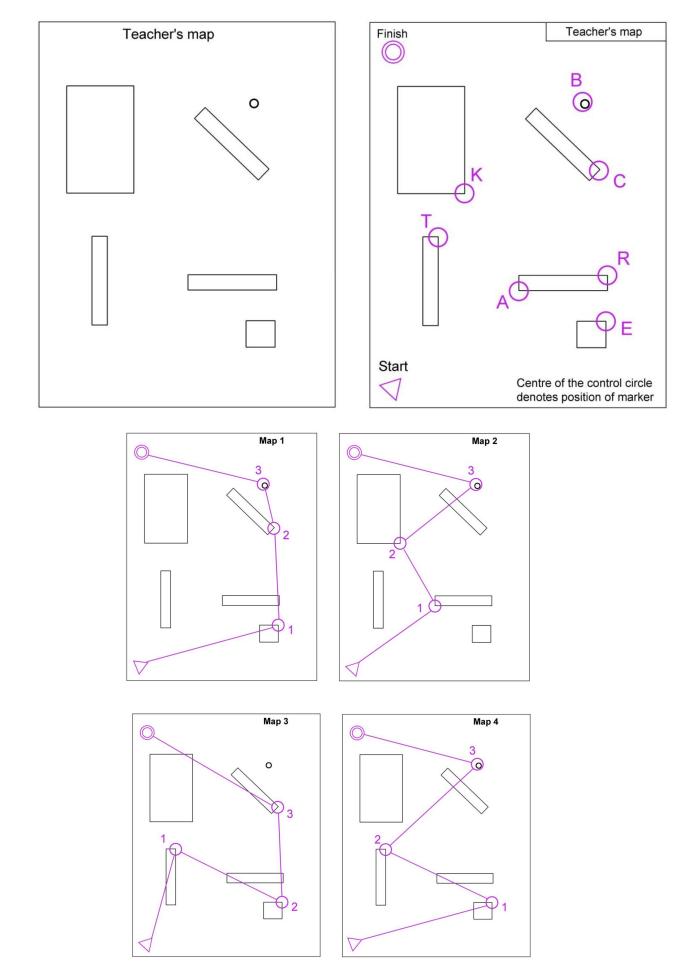
Orientate the map | Turn the map to fit the shape of the land



Which image has the map correctly orientated?

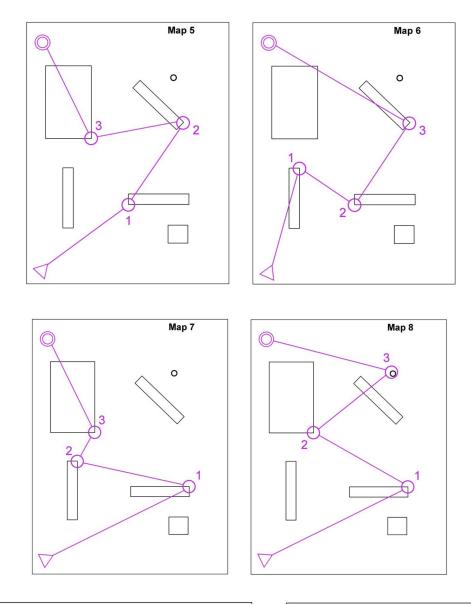




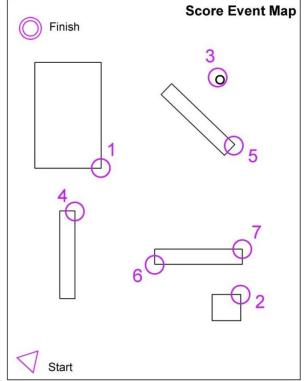


Source - <u>www.Scottish-orienteering.org</u>





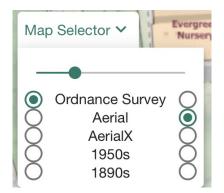
Answers	s for Gym Orienteering
Map 1	ЕСВ
Map 2	АКВ
Map 3	TEC
Map 4	ЕТВ
Map 5	АСК
Map 6	TAC
Map 7	RTK
Map 8	RKB

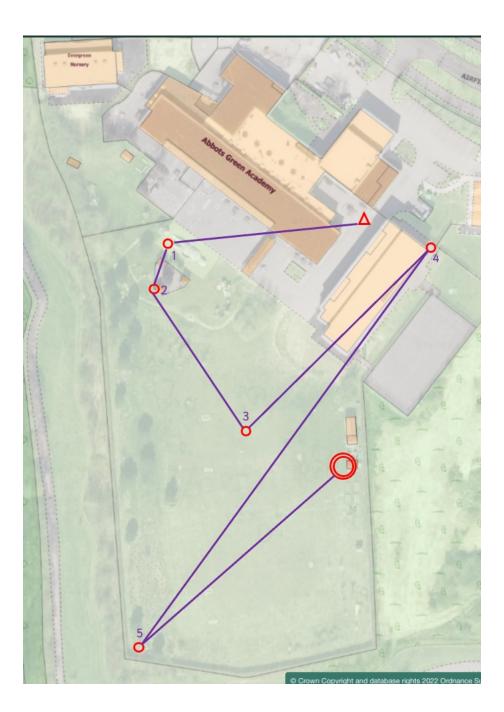


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Use Digimap for Schools. Set the map selector to a blend between Ordnance Survey and Aerial

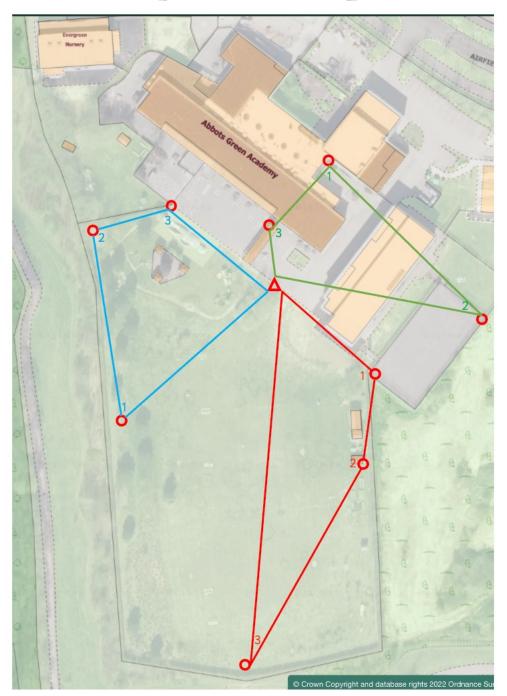






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