

© International Baccalaureate Organization 2024

All rights reserved. No part of this product may be reproduced in any form or by any electronic or mechanical means, including information storage and retrieval systems, without the prior written permission from the IB. Additionally, the license tied with this product prohibits use of any selected files or extracts from this product. Use by third parties, including but not limited to publishers, private teachers, tutoring or study services, preparatory schools, vendors operating curriculum mapping services or teacher resource digital platforms and app developers, whether fee-covered or not, is prohibited and is a criminal offense.

More information on how to request written permission in the form of a license can be obtained from <https://ibo.org/become-an-ib-school/ib-publishing/licensing/applying-for-a-license/>.

© Organisation du Baccalauréat International 2024

Tous droits réservés. Aucune partie de ce produit ne peut être reproduite sous quelque forme ni par quelque moyen que ce soit, électronique ou mécanique, y compris des systèmes de stockage et de récupération d'informations, sans l'autorisation écrite préalable de l'IB. De plus, la licence associée à ce produit interdit toute utilisation de tout fichier ou extrait sélectionné dans ce produit. L'utilisation par des tiers, y compris, sans toutefois s'y limiter, des éditeurs, des professeurs particuliers, des services de tutorat ou d'aide aux études, des établissements de préparation à l'enseignement supérieur, des fournisseurs de services de planification des programmes d'études, des gestionnaires de plateformes pédagogiques en ligne, et des développeurs d'applications, moyennant paiement ou non, est interdite et constitue une infraction pénale.

Pour plus d'informations sur la procédure à suivre pour obtenir une autorisation écrite sous la forme d'une licence, rendez-vous à l'adresse <https://ibo.org/become-an-ib-school/ib-publishing/licensing/applying-for-a-license/>.

© Organización del Bachillerato Internacional, 2024

Todos los derechos reservados. No se podrá reproducir ninguna parte de este producto de ninguna forma ni por ningún medio electrónico o mecánico, incluidos los sistemas de almacenamiento y recuperación de información, sin la previa autorización por escrito del IB. Además, la licencia vinculada a este producto prohíbe el uso de todo archivo o fragmento seleccionado de este producto. El uso por parte de terceros —lo que incluye, a título enunciativo, editoriales, profesores particulares, servicios de apoyo académico o ayuda para el estudio, colegios preparatorios, desarrolladores de aplicaciones y entidades que presten servicios de planificación curricular u ofrezcan recursos para docentes mediante plataformas digitales—, ya sea incluido en tasas o no, está prohibido y constituye un delito.

En este enlace encontrará más información sobre cómo solicitar una autorización por escrito en forma de licencia: <https://ibo.org/become-an-ib-school/ib-publishing/licensing/applying-for-a-license/>.

# Geography

## Higher level and standard level

### Paper 1 – resource booklet

6 November 2024

Zone A afternoon | Zone B afternoon | Zone C afternoon

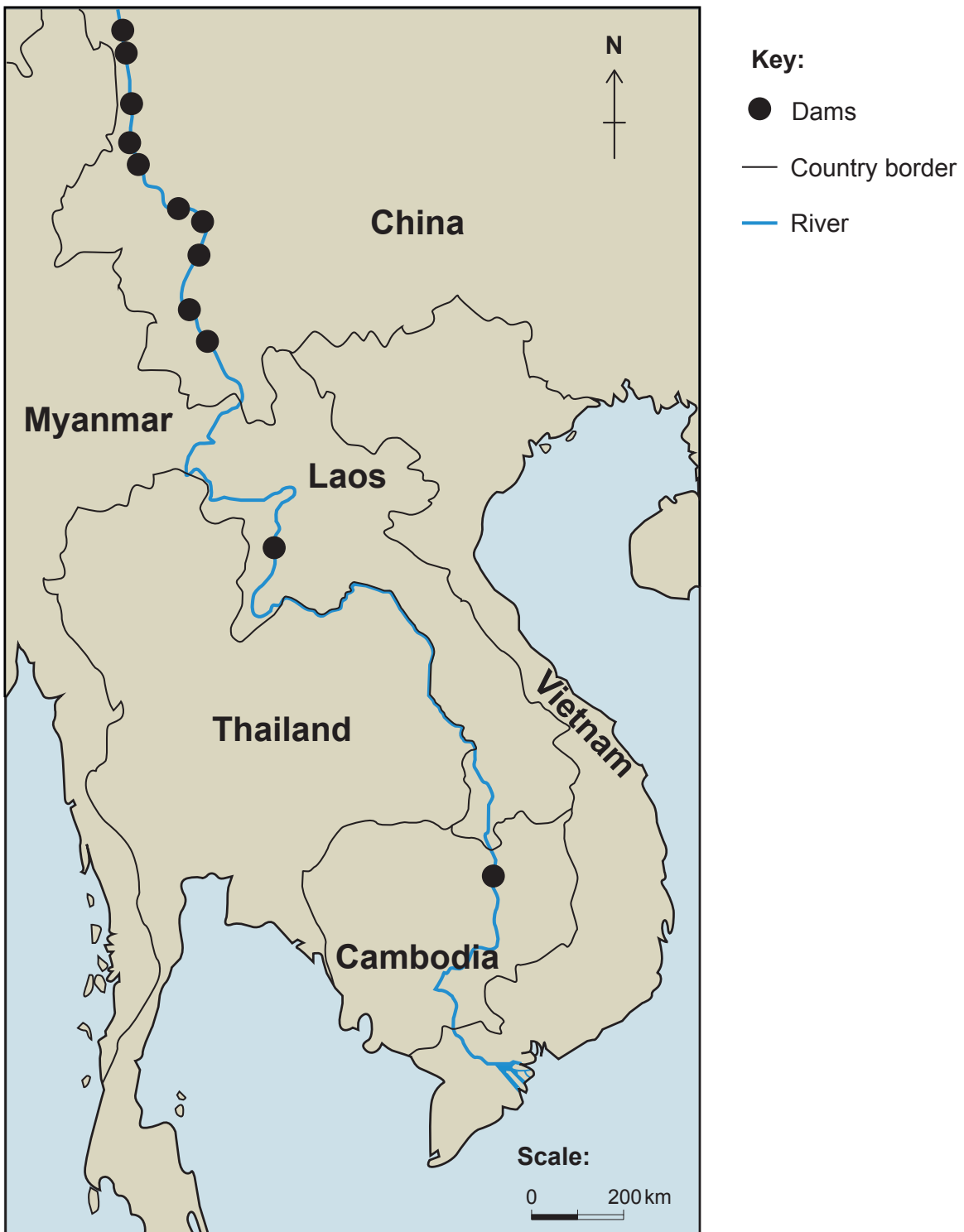
---

#### Instructions to candidates

- Do not open this booklet until instructed to do so.
- This booklet accompanies paper 1.

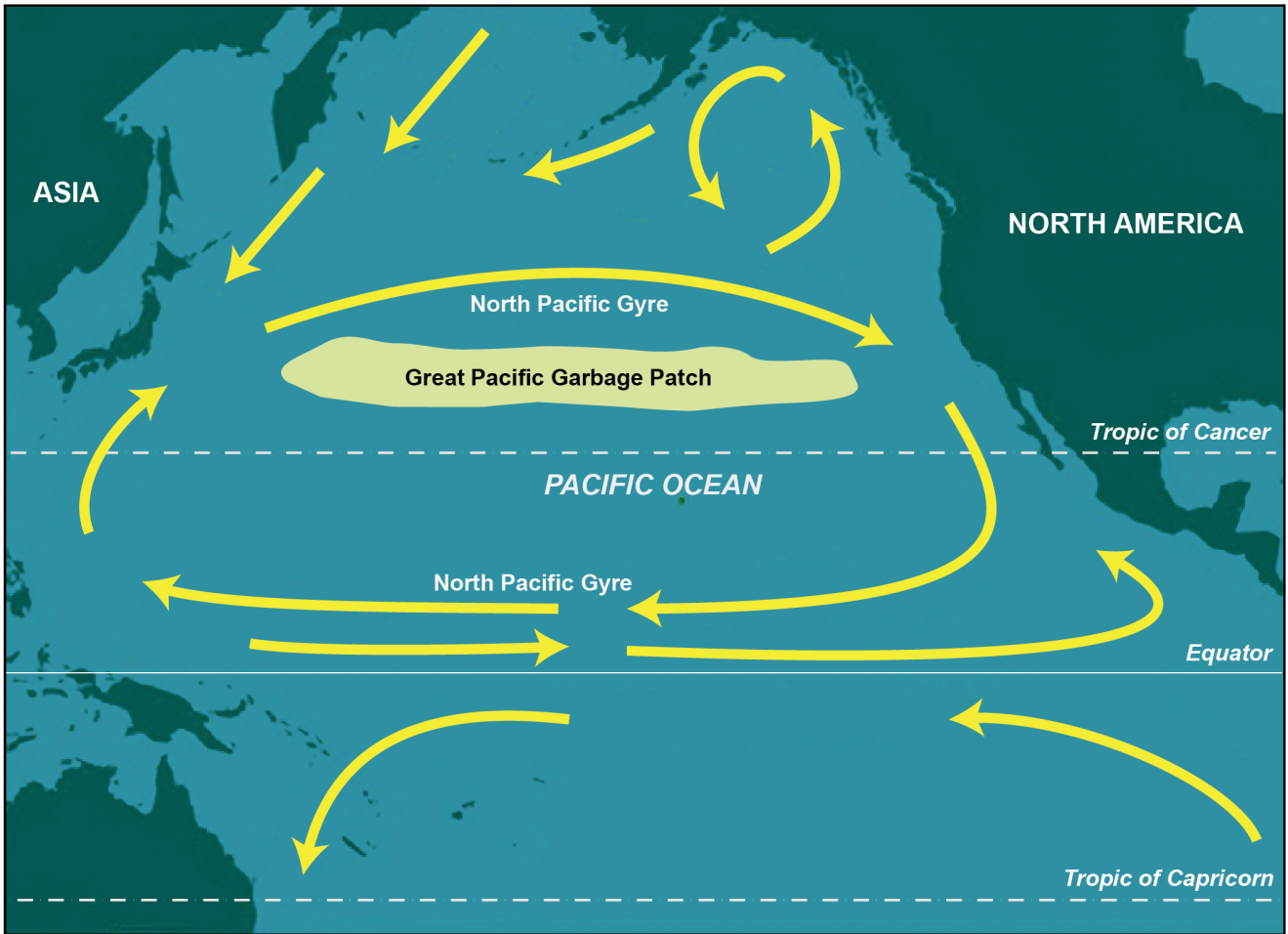
**Option A — Freshwater**

1. The map shows the Mekong River and its main dams in 2020.



**Option B — Oceans and coastal margins**

3. The map shows the Great Pacific Garbage Patch between Asia and North America.



**Key:**  
← Ocean currents

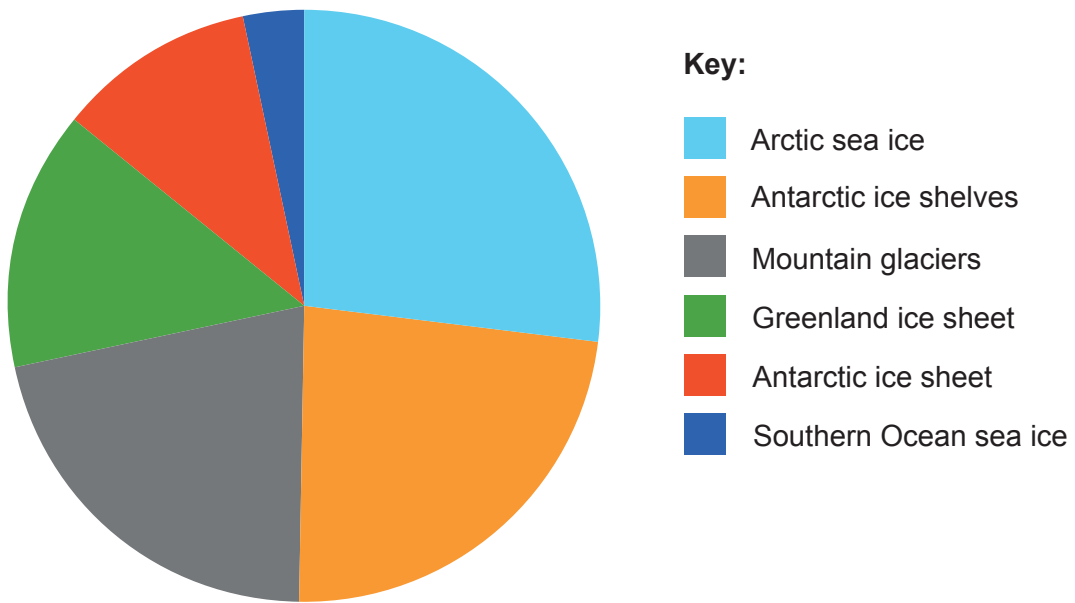
**Scale at Tropic of Cancer**

0 2000 km



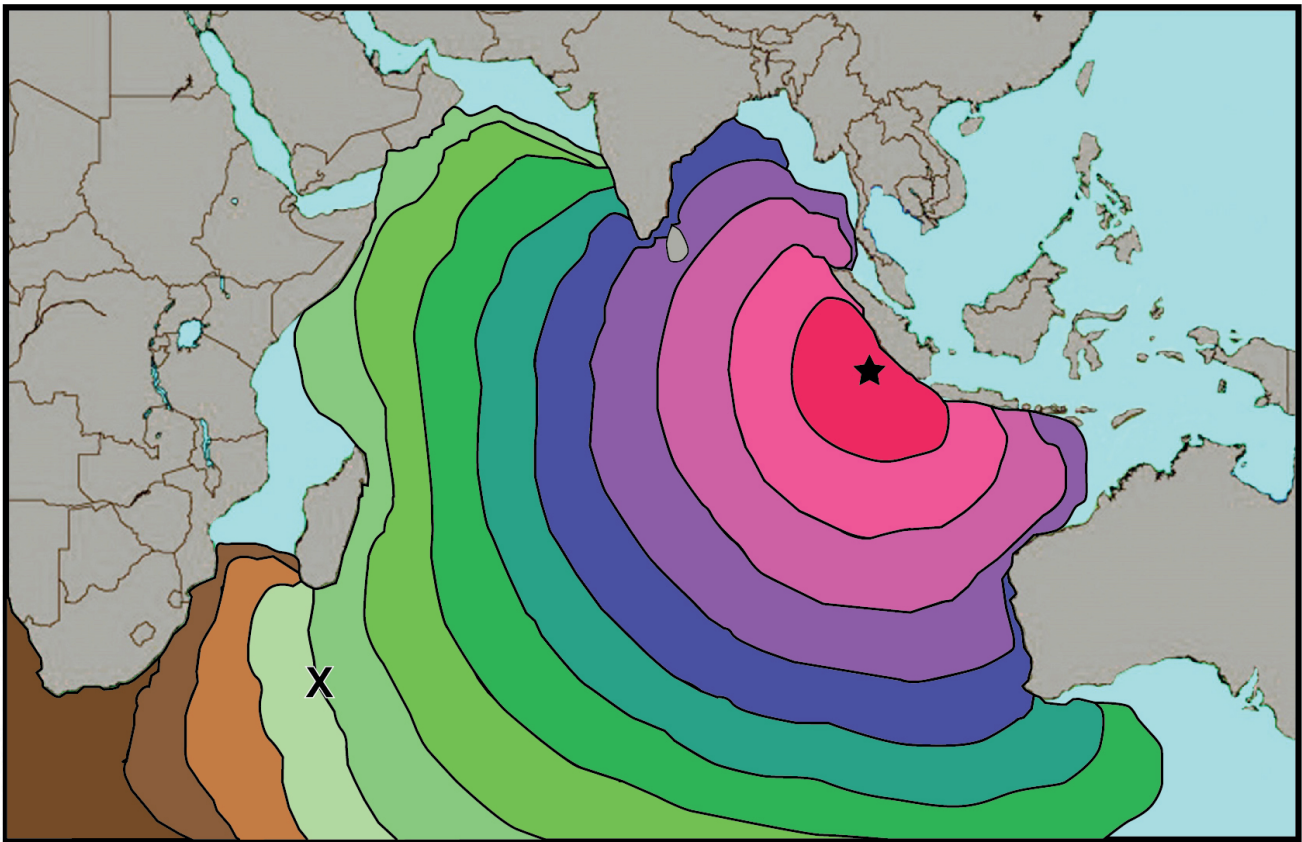
**Option C — Extreme environments**

5. The diagram shows the proportions of Earth’s ice loss (a total of 28 trillion tonnes) between 1994 and 2017.

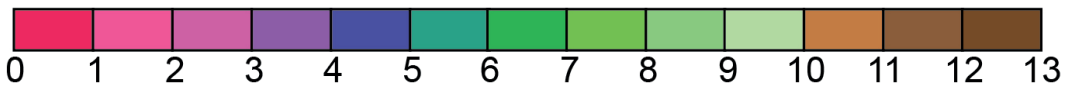


**Option D — Geophysical hazards**

7. The map shows the arrival times (in hours) of the waves from the Indian Ocean tsunami of 2004. The earthquake that generated the tsunami occurred at 10.00am.



**Arrival time of tsunami in hours**



**Key:**

★ Epicentre    Ocean    Land

**Scale:**



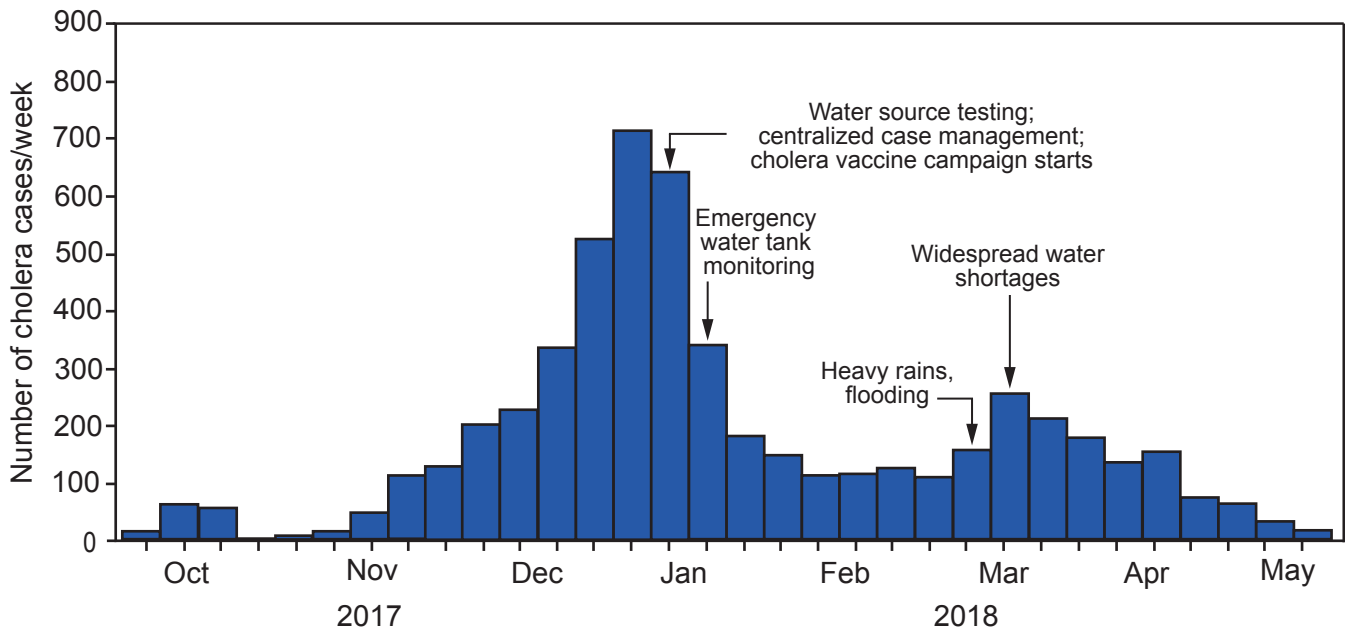
Option E — Leisure, tourism and sport

9. The map shows the ski routes in the Aviemore area of Scotland.



**Option F — Food and health**

11. The graph shows the number of cholera cases and related events in Lusaka, Zambia, from October 2017 to May 2018.



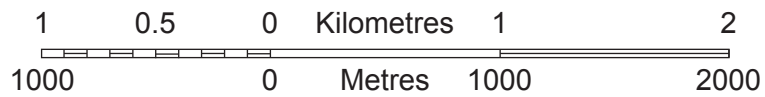


### Option G — Urban environments














13. The map shows part of the urban area of Nashville, USA. The scale of the map is 1:24 000, and the contour interval is 3 metres.



Scale 1: 24 000





Key:			
	Primary highway, hard surface		Water
	Secondary highway, hard surface		Township boundary
	Local road, hard or improved surface		Standard-gauge railway
	Unimproved road		Contours
	State route	WT	Water tower
	Disturbed surface	ST	Street
	Woodland	Cem	Cemetery
	Buildings	CH	Church
	Built-up area		

**Disclaimer:**

Content used in IB assessments is taken from authentic, third-party sources. The views expressed within them belong to their individual authors and/or publishers and do not necessarily reflect the views of the IB.

**References:**

- Option A** Stimson, 2020. Mekong Mainstream Dams. [online] Available at: <https://www.stimson.org/2020/mekong-mainstream-dams/> [Accessed 26 September 2023]. Source adapted.
- Option B** NOAA. [https://commons.wikimedia.org/wiki/File:North\\_Pacific\\_Subtropical\\_Convergence\\_Zone.jpg](https://commons.wikimedia.org/wiki/File:North_Pacific_Subtropical_Convergence_Zone.jpg). Public domain. Source adapted.
- Option C** RCraig09. [https://en.m.wikipedia.org/wiki/File:1994-\\_Earth%27s\\_ice\\_imbalance\\_-\\_ice\\_loss\\_-\\_Climate\\_change\\_-\\_Global\\_warming.svg](https://en.m.wikipedia.org/wiki/File:1994-_Earth%27s_ice_imbalance_-_ice_loss_-_Climate_change_-_Global_warming.svg). Licensed under CC BY-SA 4.0 <https://creativecommons.org/licenses/by-sa/4.0/deed.en>. Based on data from Slater, Thomas; Lawrence, Isobel R.; Otosaka, Inès; Shepherd, Andrew; et al., (25 January 2021). "Review article: Earth's ice imbalance". *The Cryosphere* 15: 233–246. DOI:10.5194/tc-15-233-2021. Licensed under CC BY 4.0 <https://creativecommons.org/licenses/by/4.0/>. Source adapted.
- Option D** National Geophysical Data Center / World Data Service: NCEI/WDS Global Historical Tsunami Database. NOAA National Centers for Environmental Information. doi:10.7289/V5PN93H7 [January 2024]. Source adapted.
- Option E** Cairngorm Mountain (Scotland) Ltd, 2023. Piste Map. [online] Available at: <https://www.cairngormmountain.co.uk/piste-map/> [Accessed 26 September 2023].
- Option F** Sinyange N., Brunkard J. M., Kapata N., et al., 2018. Cholera Epidemic — Lusaka, Zambia, October 2017–May 2018. *MMWR Morb Mortal Wkly Rep*, 67, pp. 556–559. doi: <http://dx.doi.org/10.15585/mmwr.mm6719a5>. Source adapted.
- Option G** topoview courtesy of the U.S. Geological Survey, Department of the Interior/USGS.

**All other texts, graphics and illustrations © International Baccalaureate Organization 2024**