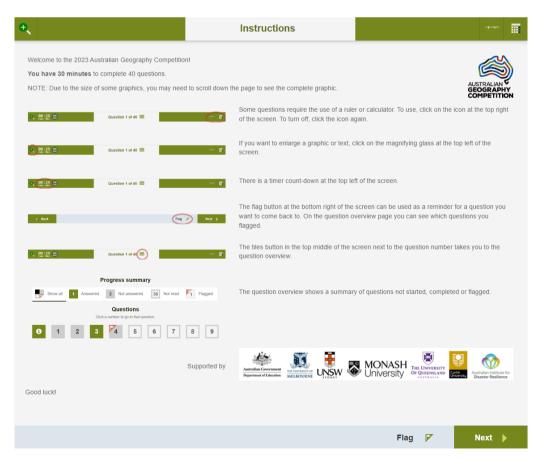


## 2023 Year 10 – answers



\*note: on a question where this is more than one drop down to be answered, and only one list is visible, all answer options are the same for each of the drop downs



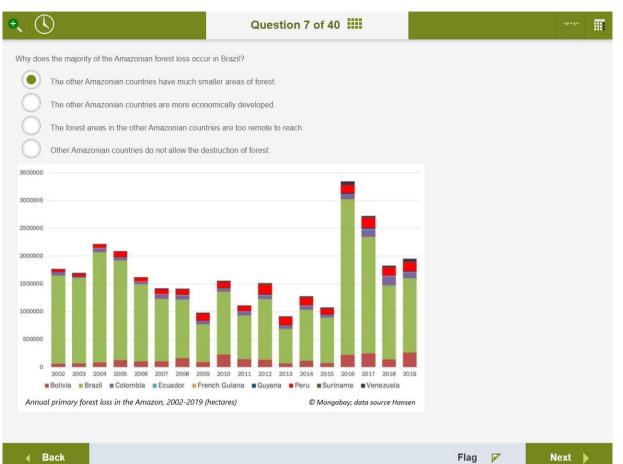
•	Question 1 of 40		ntonton 🏢
What is meant by biodiversity? interconnected biological processes in an ecosystem diverse ways of looking at biology differences in the total mass of living organisms in ar the variety of living organisms and their ecosystems the variety of living organisms and their ecosystems <b>Land and Sea use</b> Change Including habitat loss and degradation) The five threats to biodiversity	area		
Back		Flag 🌾	Next 🕨
•	Question 2 of 40		
Image: Comparison of the set of the	n the correct answer in the image below.		

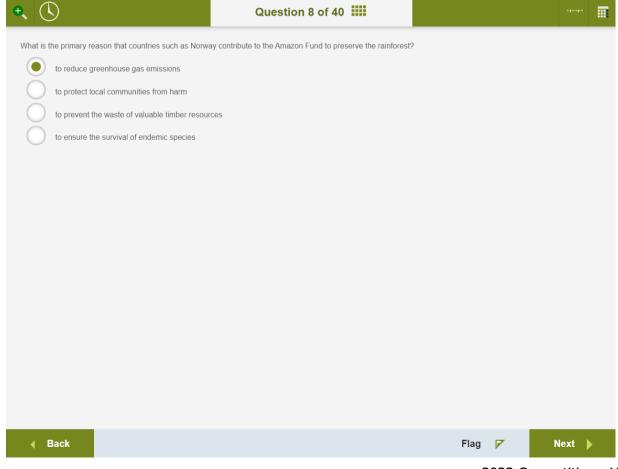
		uestion 3 of 40		
Using the graphs below, which region v	was most successful in reversing it	s decline in biodiversity between 20	010 and 2016?	
North America	Asia/Pacific	Africa	0	Europe/Central Asia
Average change in the size of monitored ver	rtebrate species populations in the Living	g Planet Index, 1970-2016	ି 🕲 🕲	
► By region Index value (1970 = 1) LAT. AMERICA / CARIBBEAN AFRICA	ASIA / PACIFIC		EUROPE / CENTRAL ASIA	
- 94%	- 65%	- 45% - 33%	- 24%	
1 Range	1	1	1	
0	0	0	0	
1970 2016 1970	2016 1970	2016 1970 2016	1970 2016	
Regional declines in the earth's biodi	iversity		© WWF, CC	
Back			Flag	V Next
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$\square$	Qu	uestion 4 of 40		
vo those statements relating to biadiu	ersity changes between 1070 and		the information in the graphs	
	ersity changes between 1970 and		the information in the graphs	
correct drop-down word.	ersity changes between 1970 and	2016 supported or unsupported by	the information in the graphs	
orrect drop-down word.	ersity changes between 1970 and		the information in the graphs	
orrect drop-down word. Statement		2016 supported or unsupported by	the information in the graphs	
orrect drop-down word. Statement		2016 supported or unsupported by Supported/Unsupported	the information in the graphs	
orrect drop-down word. <b>Statement</b> 33% of North America's vertebrate spe	ecies have become extinct.	2016 supported or unsupported by Supported/Unsupported	the information in the graphs	
orrect drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th	ecies have become extinct. le worst declines.	2016 supported or unsupported by Supported/Unsupported Unsupported  Supported	the information in the graphs	
orrect drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th	ecies have become extinct. le worst declines.	2016 supported or unsupported by Supported/Unsupported Unsupported -	the information in the graphs	
orrect drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b	ecies have become extinct. le worst declines. liodiversity.	2016 supported or unsupported by Supported/Unsupported Unsupported  Supported  Unsupported  Unsupported  Unsupported	the information in the graphs	
orrect drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b	ecies have become extinct. le worst declines. liodiversity.	2016 supported or unsupported by Supported/Unsupported Unsupported  Supported	the information in the graphs	
orrect drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b The worst period for biodiversity loss h	ecies have become extinct. le worst declines. liodiversity. has been since 2010.	2016 supported or unsupported by Supported/Unsupported Unsupported  Supported  Unsupported  Unsupported  Unsupported		
correct drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b	ecies have become extinct. le worst declines. liodiversity. has been since 2010.	2016 supported or unsupported by Supported/Unsupported Unsupported  Supported  Unsupported  Unsupported  Unsupported	the information in the graphs	
correct drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b The worst period for biodiversity loss h Average change in the size of monitored vert	ecies have become extinct. le worst declines. liodiversity. has been since 2010.	2016 supported or unsupported by Supported/Unsupported Unsupported • Unsupported • Unsupported • Planet Index, 1970-2016		
correct drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b The worst period for biodiversity loss h Average change in the size of monitored vert > By region Index value (1970 = 1)	ecies have become extinct. le worst declines. liodiversity. has been since 2010. tebrate species populations in the Living ASIA / PACIFIC	2016 supported or unsupported by Supported/Unsupported Unsupported • Unsupported • Unsupported • Planet Index, 1970-2016	9 9 9	
correct drop-down word. Statement 33% of North America's vertebrate special Developing countries have suffered th China has improved its protection of b The worst period for biodiversity loss h Average change in the size of monitored vert > By region Index value (1970 = 1) LAT. AMERICA / CARIBBEAN AFRICA - 94%	ecies have become extinct. le worst declines. iodiversity. has been since 2010. tebrate species populations in the Living ASIA / PACIFIC - 65%	2016 supported or unsupported by Supported/Unsupported Unsupported Unsupported Unsupported Planet Index, 1970-2016 NORTH AMERICA - 33%	ව ඉ හ පurope / Central Asia	
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sorrect drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b The worst period for biodiversity loss h Average change in the size of monitored vert > By region Index value (1970 = 1) LAT. AMERICA / CARIBBEAN AFRICA 1	ecies have become extinct. le worst declines. iodiversity. has been since 2010. tebrate species populations in the Living ASIA / PACIFIC - 65%	2016 supported or unsupported by Supported/Unsupported Unsupported Unsupported Unsupported Unsupported Planet Index, 1970-2016 NORTH AMERICA	ව ඉ හ පurope / Central Asia	
sorrect drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b The worst period for biodiversity loss h Average change in the size of monitored vert > By region Index value (1970 = 1) LAT. AMERICA / CARIBBEAN AFRICA - 94% 1 0 0 0 0 0 1970 2015	ecies have become extinct. e worst declines. iodiversity. has been since 2010. tebrate species populations in the Living ASIA / PACIFIC - 65% - 7% - 7%	2016 supported or unsupported by Supported/Unsupported Unsupported Unsupported Unsupported Planet Index, 1970-2016 NORTH AMERICA	<ul> <li>S</li> <li>S</li> <li>S</li> <li>CENTRAL ASIA</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 216</li> </ul>	
sorrect drop-down word. Statement 33% of North America's vertebrate spe Developing countries have suffered th China has improved its protection of b The worst period for biodiversity loss f Average change in the size of monitored vert > By region Index value (1970 = 1) LAT. AMERICA / CARIBBEAN AFRICA -94% 1 0 -94% 0 	ecies have become extinct. e worst declines. iodiversity. has been since 2010. tebrate species populations in the Living ASIA / PACIFIC - 65% - 7% - 7%	2016 supported or unsupported by Supported/Unsupported Unsupported Unsupported Unsupported Unsupported Planet Index, 1970-2016 NORTH AMERICA	<ul> <li>S</li> <li>S</li> <li>S</li> <li>EUROPE / CENTRAL ASIA</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> </ul>	
By region Index value (1970 = 1) LAT. AMERICA / CARIBBEAN AFRICA      - 94%     Grange     0 Grand Content of the second conten	ecies have become extinct. e worst declines. iodiversity. has been since 2010. tebrate species populations in the Living ASIA / PACIFIC - 65% - 7% - 7%	2016 supported or unsupported by Supported/Unsupported Unsupported Unsupported Unsupported Unsupported Planet Index, 1970-2016 NORTH AMERICA	<ul> <li>S</li> <li>S</li> <li>S</li> <li>CENTRAL ASIA</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 216</li> </ul>	
correct drop-down word. Statement 33% of North America's vertebrate special Developing countries have suffered th China has improved its protection of b The worst period for biodiversity loss h Average change in the size of monitored vert > By region indexvalue (1970 = 1) LAT. AMERICA / CARIBBEAN AFRICA - 94% 1 0 0 0 0 0 1970 1970 2016	ecies have become extinct. e worst declines. iodiversity. has been since 2010. tebrate species populations in the Living ASIA / PACIFIC - 65% - 7% - 7%	2016 supported or unsupported by Supported/Unsupported Unsupported Unsupported Unsupported Unsupported Planet Index, 1970-2016 NORTH AMERICA	<ul> <li>S</li> <li>S</li> <li>S</li> <li>CENTRAL ASIA</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 24%</li> <li>- 216</li> </ul>	

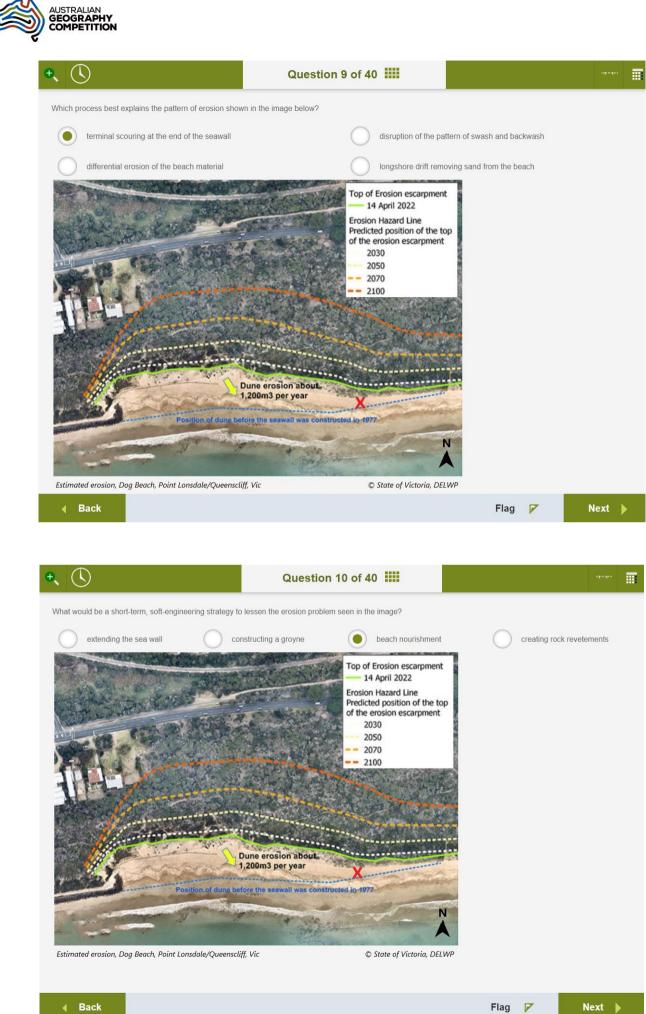






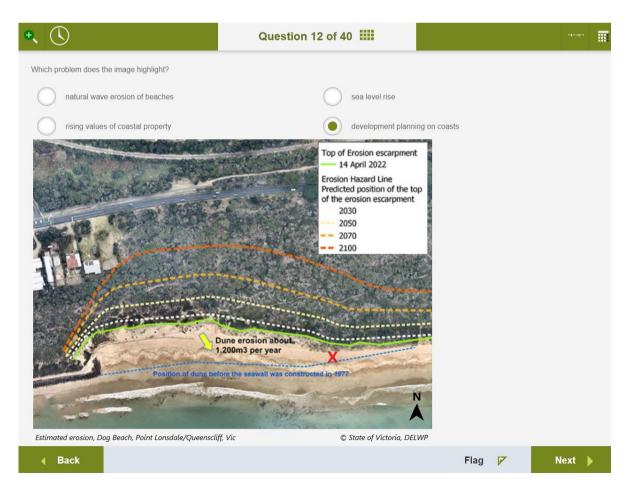






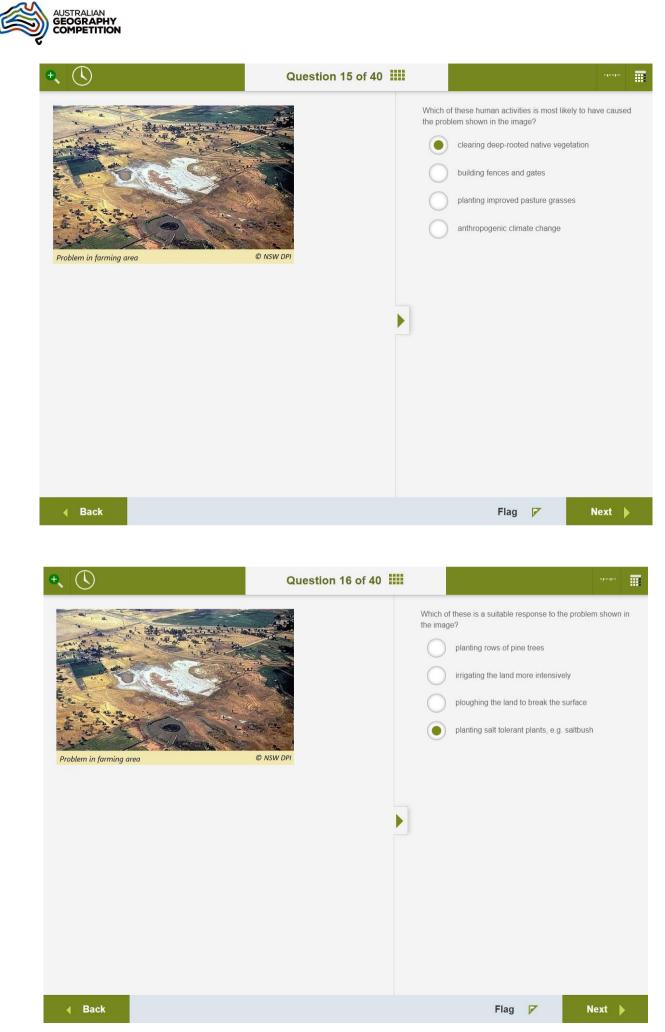








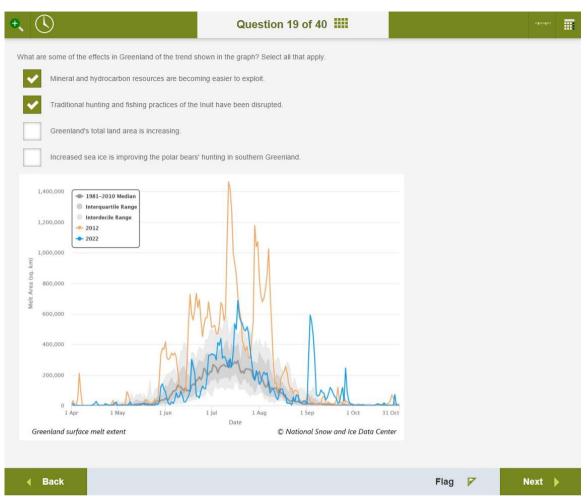
<b>+</b>	Question 13 of 40				≣
Aboriginal peoples in Australia commonly manipulated th	ne land to enhance food availability through:				
controlled burning					
irrigation systems					
crop rotation					
contour ploughing					
✓ Back		Flag		Next	
	Question 14 of 40			պապա	
CSIRO has studied the wide-ranging benefits associated table.	I with Indigenous land management. Classify these benefits	by dragging and drop	ping the app	propriate text into t	the
Category	Benefit example				
Health and well-being	Better diet reducing lifestyle risk factors	6			
Cultural and sociopolitical	Support for intergenerational transfer of	f knowledge			
Economic	Creation of saleable carbon credits				
Environmental	Lower rates of weed infestation				
<b>∢</b> Back		Flag	~	Next	

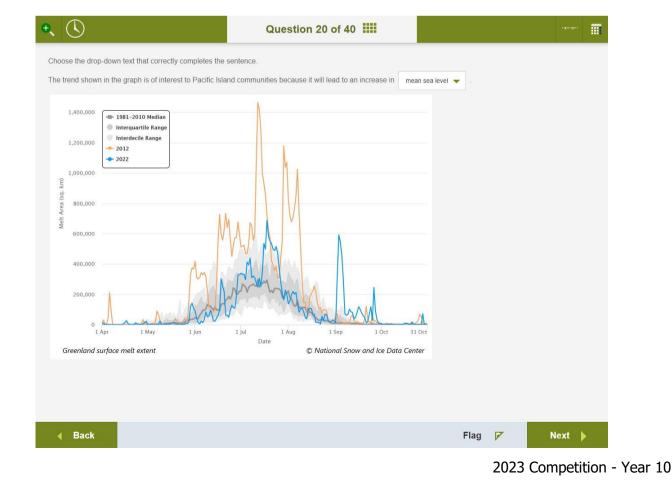


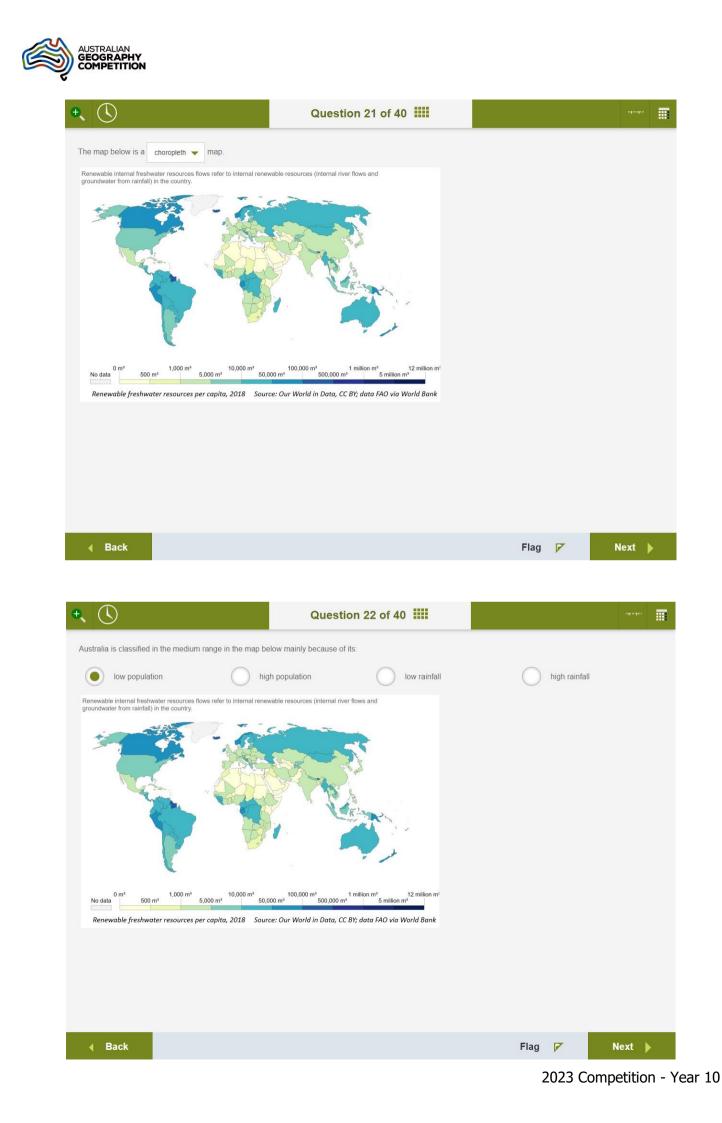
2023 Competition - Year 10

Vertex     Vertex <th>ite strial</th> <th>2</th> <th></th>	ite strial	2	
Using the graph below, which of these statements is true?   The extent of ice melt in 2022 was greater than in 2012.   The extent of ice melt in Greenland is naturally variable.   The interdecile range is by definition smaller than the interquartile range.   The extent of the ice melt increases each year.			
<ul> <li>The extent of ice melt in 2022 was greater than in 2012.</li> <li>The extent of ice melt in Greenland is naturally variable.</li> <li>The interdecile range is by definition smaller than the interquartile range.</li> <li>The extent of the ice melt increases each year.</li> </ul>	Flag	7	Next
The interdecile range is by definition smaller than the interquartile range. The extent of the ice melt increases each year: 1,400,000 1,200,000 1,000,000 1,000,000 0,000			
The extent of the ice melt increases each year.			
1,200,000 1,200,000 1,000,000 1,000,000 1,000,000 1,000,000 600,000			
200,000 0 Apr 1 May 1 Jun 1 Jul 1 Aug 1 Sep 1 Oct 31 Oct Greenland surface melt extent © National Snow and Ice Data Center			











•	Question 23 of 40			
Which is the most significant limitation of the data show	n in the map?			
does not include country name labels	o does not show var	iation within countries		
missing data for one country	does not show may	jor dams		
Benevable internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener         Image: state internal feativation resources flows refer to internal rener	000 m <sup>3</sup> <sup>100,000</sup> m <sup>3</sup> <sup>1</sup> million m <sup>3</sup> <sup>12</sup> million m <sup>3</sup>			
◀ Back		Flag	Next	

•	Que	estion 24 of 40		ajaajaa	T
India experiences more water stress th	han Egypt. What information is missir	ng from the map that would explain this?	area		
Renewable internal freshwater resources flow groundwater from rainfall) in the county.	s refer to internal renewable resources (internal	al river flows and			
	100,000 m <sup>3</sup> 50,000 m <sup>3</sup> 500,00 capita, 2018 Source: Our World in Date				
Back			Flag 🍞	Next	>



<b>+</b>	Question 25 of 40				
Which of these initiatives are most likely to help reduce the risk	k of water scarcity for residents? Se	lect all that apply.			
very cling water					
promoting water conservation measures					
privatising the water supply					
deregulating discharge from sewage treatment facili	ities				
l Back			Flag		Next 🕨
			-		
$\frown$					
•	Question 26 of 40				
		nd drop these state p lowest.	es in order from highes	st Human De	evelopment (HDI)
		Western Australia	a		
		New South Wales	s		
		Victoria			
		South Australia	_		
> 0.960					
0.960 — 0.950 0.950 — 0.940					
C.940 Human Development Index (HDI) scores by state, 2021					
© A Hunter, CC BY SA 4.0; data Global Data Lab					



•	Question 27 of 40		alaataa 🛄
Interview of the second sec	Which of the indicators that score compared to the othe life expectancy at expected years o mean years of sc gross income per	t birth f schooling hooling	n Australia's
■ Back		Flag 🔽	Next 🕨
• ()	Question 28 of 40		
Drag and drop the Human Development Index (HDI) scores to corre	ectly match the countries below.		
Country HDI score			
Afghanistan 0.478			
Fiii 0.730			

Drag and drop the Hu	man Development Index (HDI) scores to correctly match the countries below.			
Country	HDI score			
Afghanistan	0.478			
Fiji	0.730			
Switzerland	0.962			
USA	0.921			
			_	
Back		Flag		Next 🕨



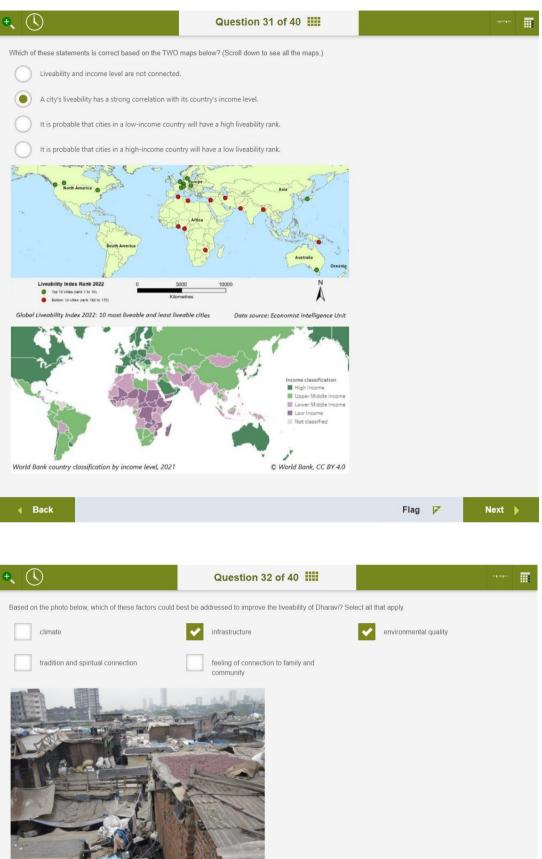


The EIU Liveability Inc classify the selected fa	dex is another way of measuring the quality of life. It measure actors.	s 30 factors in 5 categories. Drag and drop the	category	into the tabl	le below to corr	ectly
С	ategory	Selected factor				
	Healthcare	Availability of over-the-counter drugs				
	Education	Public education indicators				
	Infrastructure	Quality of water provision				
	Culture & environment	Social or religious restrictions				
	Stability	Threat of civil unrest/conflict				
Back			Flag		Next	



Dharavi, Mumbai, India

Back



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Flag 🔽



Total Population

Stage 1

Demographic transition model

Stage 2

Stage 3

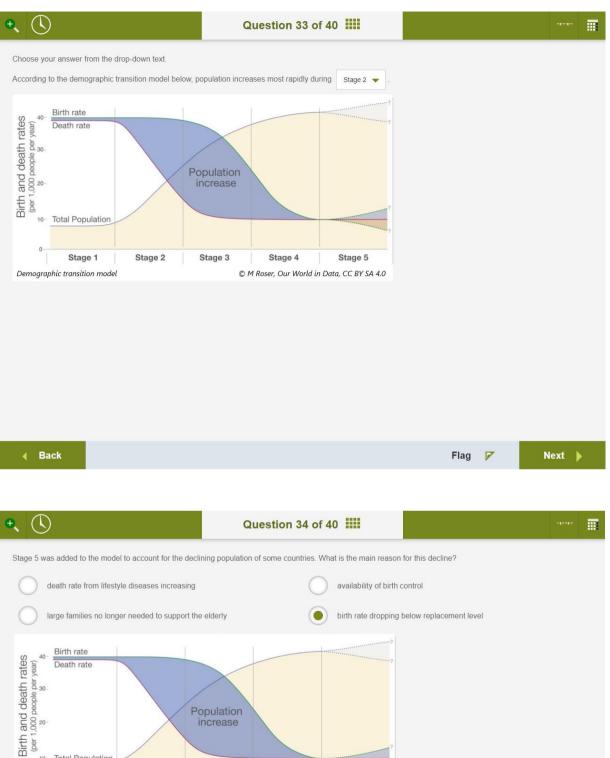
Stage 4

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Stage 5

10-

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