	Shackleton	's Ice Trap -Geography Knowledge Organiser Shakespeare Class - Autumn 2
	Vocabulary	
feature	important part of something	Icebergs- 90% of the world's icebergs can be found in Antarctica
Physical feature	something which is natural e.g. land, water, mountains, rivers	The second secon
Human feature	something which is made by a human being e.g. buildings, roads, cities, towns	
Iceberg	a large floating mass of ice detached from a glacier or ice sheet and carried out to sea	
Ice sheet	a layer of ice covering an extensive tract of land for a long period of time.	Ross Ice Shelf-largest ice shelf in Antarctic and is several hundred metres thick
Glacier	a slowly moving mass or river of ice formed by the accumulation and compaction of snow on mountains or near the poles	
Ice shelf	a floating sheet of ice permanently attached to a land mass.	
Dry Valley	a valley cut by water erosion but containing no permanent surface stream,	
Research Stations	constructed either on rock or on ice that is fixed in place.	



McMurdo Dry Valley - snow free





Research stations 45 year-round stations 30 summer stations





KNOWLEDGE ORGANISER



Key Fact:

Both teams were

widely celebrated

with Amundsen

eceiving telegrams

Map and Overview



- Antarctica is the world's southernmost continent. It is the location of the geographic South Pole.
- -Antarctica is the fifth largest continent by size it is 14.2 million lam2 about twice the size of Australia.
- -About 98% of Antarctica is covered by ice this averages about 1.9km in thickness.
- -Antarctica is the coldest, driest and windiest continent, with the highest average elevation.
- -The population is only around 2,000 people, who are temporary scientists and research teams (this fluctuates between summer-winter).

Places in Antarctica

There are no countries in

Antarctica, and no

permanent residents.

Antarctica is divided into

foreign-run 'territories.'

Largest Settlements in Antarctica

- McMurdo Station (USA)
- 2. Frei Station (Chile)
- 3. Amundsen-Scott (USA) 4. Mirry - (Russia)
- Esperanze (Argentina)

Largest Territories in Antarctica

- Australia 5.9 millions
- Norway 2.7 million2
- United Kingdom 1,7 millions Argenting - 1.5 millions
- Chile 13 millions

The South Pole

The South Pole is the most southerly place

Victoria Land Vitoria Land is the first known point at

which man set foot on Antarctica. This was

situated just to the west the Ross Ice Shelf.

probably by Captain James Clark Ross in 1841. The

Laburinth flatlands, and also the McMurdo Valleys. It is

region includes the Transatlantic Mountains, the

the world upon which the earth's axis is centred. The

Amundsen and his team on December 11th, 1911. They

were followed a month later by UK explorer Robert

Scott and his team. The USA's permanently-manned Amundsen-Scott station is positioned at the pole.

South Pole was first reached by Norwegian Roald

in the world, and is one of two places in

Antarctic Peninsula

The Antarctic Peninsula is the northernmost area of land on Antarctica. It is a part of

Western Antarctica, and protrudes about 1.300km north towards South America. The northernmost tip of the peninsula is only about 1,000km away from the southernmost part of South America. Some sections contain little/ no sheet ice, the only place in Antarctica.



Drake Passage

The Drabe Passage is the body of water between the northernmost part of the

Antarctic Peninsula and the southernmost tip of South America. It is known to be the quickest route to Antarctica from other land, but contains incredibly rough seas. Many ships have been destroyed here.

Longest Rivers

zovski – 500m

Priscu Stream - 3.8km

Aiben Creeb - 6bm

Jemmi Creek - 10.3km

Onux - 32 bm

South Pole

Melting Ice

McMurdo

Station

Antarctic Treaty

Race to the



Antarctic ice has been rapidly melting over recent years, as a consequence of global warming. In recent years, even the ice in East Antarctica, the coldest area in the world, have

begun to show signs of warming. The McMurdo research station is the largest research centre in Antarctica. Situated on the southern tip of Ross Island, it is capable of ousing 1,250 people. It is the largest of three US Antarctic research stations.

The Antarctic Treaty was declared to end disputes over territory in Antarctica. The current daims are now fixed, and no country can claim any area south of 60° of latitude.

Human Geography Features

In late 1911, Robert Scott's British team and Roald Amundsen's Norweigian team were in direct competition to reach the South Pole first. Amundsen's team won the race by 33 days. Amundsen landed at the Bay of Whales on the Doss Ira Shalf urbarans Scott Involved at McMurdo. - this gave Amundsen's team a shorter route by 95km. Amundsen had also mastered using sled dogs to make his journey quicker. Scott and his team died on their return from the pole. freezing to death in their tents

on 17th january 1912. This is extramine news as it would raise sea levels. drowning low Ming countries

At ground 3pm on the 16th

December 1941,

Scott roised the

Why? is name from its pass through here. McMurdo Sound

> Key Fort When? The treaty was legal access to the whole of Antarctica

Norweigian flag at the South Poir from the American President and British King. The learn the race Amundsen-Scott was lost upon station at the pole eaching the pol is named after them. Key Fact: shown the rate of netting has increased 280% in 40 years. Key Fact: All trips to the

Any treaty-state has

Annumelson-Scott

research centre

Physical Geography Features

Weather Extremes	-	Antarctica is the coldest place on earth. In the mountains, temperatures regularly drop below -50°C in the winter. It is slightly warmer around the coastal areas, but only rarely exceeds 0°C.	Where? It is coldest on mountain ridges93.2°C was once measured.	Ney Fact: Precipitation is hard to measure, as it always falls as snow!
Ice Sheet	7	The Antarctic Ice Sheet is the largest on earth. In winter, it extends beyond the continent, growing from 3 million Isma to 18 million Isma	Where? Crouth occurs mainly at coastal ice shelves.	Key Fact: The Ross and Ronne ice Shelves grow the most.
Animals	* 0 F	Despite its hostile dimate, including freezing temperatures, gale force winds, and perpetual winter darkiness, Antarctica is home to many specially adapted animals. Emperor penguins are one of the best-lanown, and one of the only animals to remain on Antarctica throughout winter. A number of whale species live in the seas around Antarctica, whilst seals and many birds also call the coastal areas home.	How? All of the animab that five in and around Antarctics are specially adapted for the cold dimate, with thick fur, feathers, or blubber in Reco them warm.	Key Fact: There is for more life on the Antarctic Peninsula and around the coast than there are in the more central areas. There is almost no life on the mountains.
Southern Ocean	-	The Antarctic is surrounded by the Southern Ocean. It is a relatively deep ocean (up to 4,000m - 5,000m deep in places)	What? It is also known as the Antarctic Ocean.	Hey Fact: The Southern Ocean is all ocean on earth below 60° south.
Mount Vinson	Are	Mount Vinson is the highest mountain in Antarctica, at 4,992m above sea level. It is a part of the Vinson Massif, and lies in the Elisavoth Mountains. It overlooks the Arctic peninsula. It was not officially seen until 1950.	When? Vinson was first climbed in 1966 by a US team, led by Nicholas Clinch.	Key Fact: The Eastern route is so difficult to climb that it was not climbed until 2001.

Highest Mountains











