

2009 AS Use of English

Section A Marking Scheme

{ points within this bracket can be in any order.

Part 1

1.1

C	✓
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2.1 James Lovelock

2.2 (an) independent scientist

2.3 (an) environmentalist

2.4 (an) author / writer

2.5 (a) researcher

2.6 (an) honorary doctor

2.7 4 / four

2.8 **The Revenge of Gaia**

2.9 environmental awareness

2.10 (clean) nuclear energy

3.1 the conditions were right

3.2 create these conditions

3.3 passengers

3.4 participants

3.5 change to suit

3.6 activity changes

3.7 is too strong

3.8 is now weak

3.9 civilization

3.10 a few

4.1 **Sam** disbelief

✓

4.2 **Jo** horror

✓

5.1 equal numbers

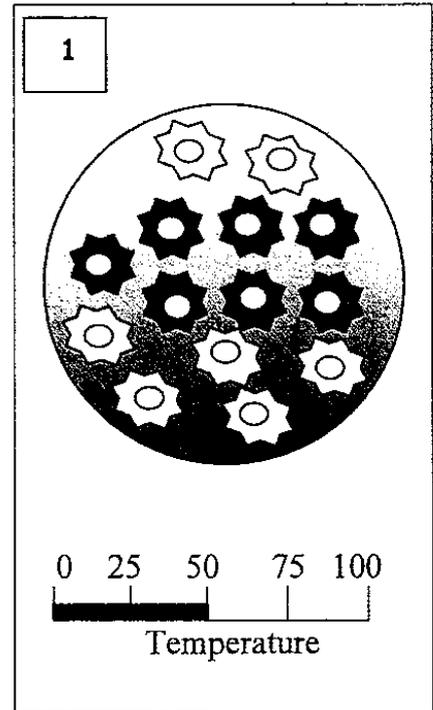
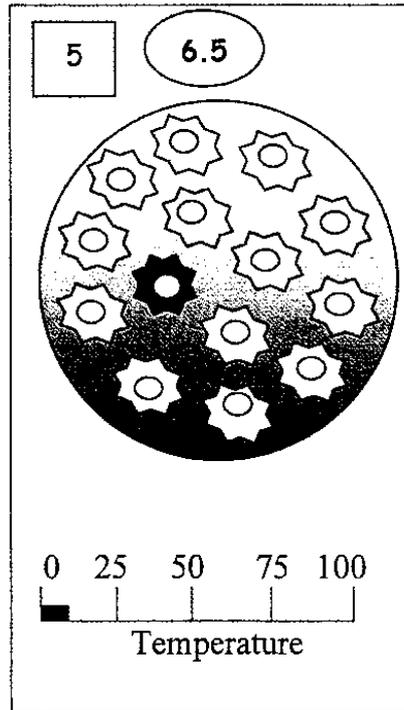
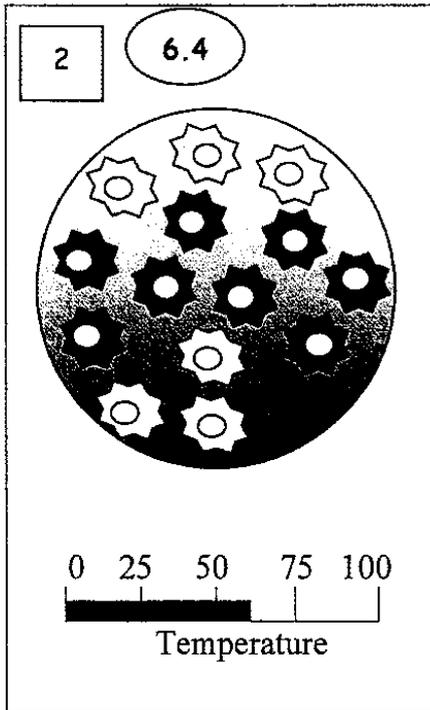
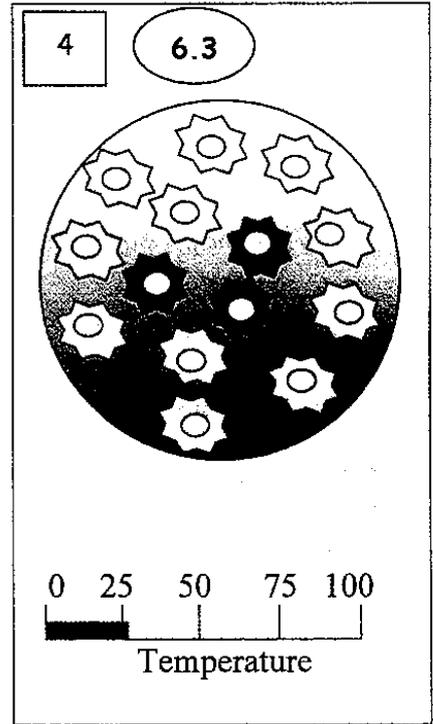
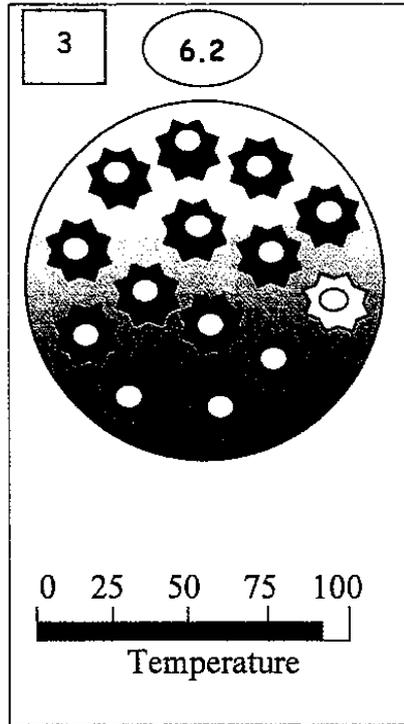
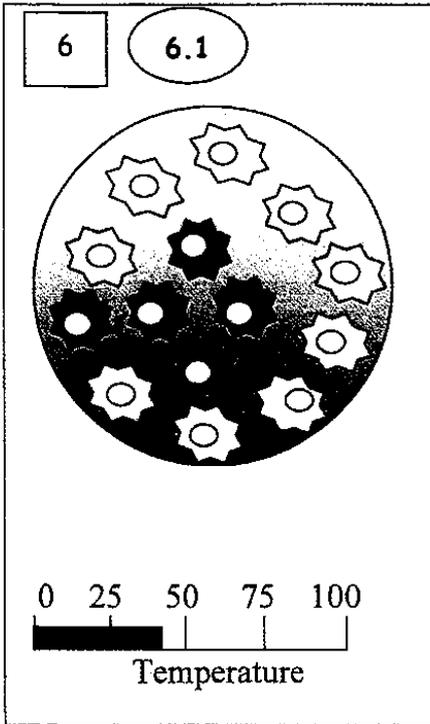
5.2 absorbing light

5.3 reflecting light

5.4 avoid

5.5 warms / goes up

5.6 develop into



Part 2

7.1 the heat rises

7.2 more ice melts

7.3 less ice to reflect sunlight

7.4 more open water and land

7.5 open water and land / they absorb sunlight

7.6 weather patterns change

7.7 environment not stable

GIVEN *The permafrost melts*

7.8 (greenhouse) gases are released

8.a 1 mile

8.b 12 miles

{ 9.1 (they) create carbon dioxide // leads to global warming

{ 9.2 inefficient

{ 9.3 waste disposal (is) difficult

{ 9.4 methane is released

{ 9.5 gas leaks

{ 9.6 cannot generate enough energy // too many windmills (are) needed

{ 9.7 wind doesn't always blow

{ 9.8 power stations must stand by

{ 9.9 (windmills) ruin the scenery

{ 9.10 solar cells expensive (to produce)

{ 9.11 sun doesn't always shine

{ 9.12 nowhere to store large amounts (of energy)

10.1 (electricity) charger

10.2 battery

{ 11.a (it's) pollution-free

{ 11.b can (be used to) generate electricity

12.1 **Sam** excitement

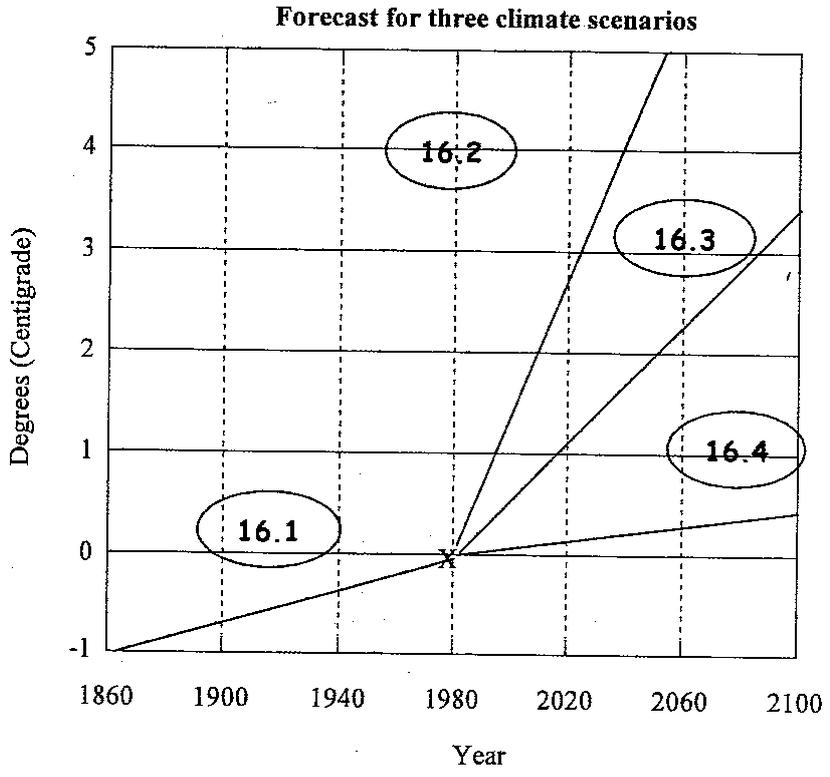
12.2 **Roy** pessimism

Part 3

13.1

Hydrogen	2
Wind power	5
Solar energy	4
Nuclear power	1

- 14.a (it's) confused with nuclear war(fare)
 - 14.b (some) serious accidents
 - 14.c media has demonized it
 - 14.d concerns about waste disposal
- 15.1 16-meter

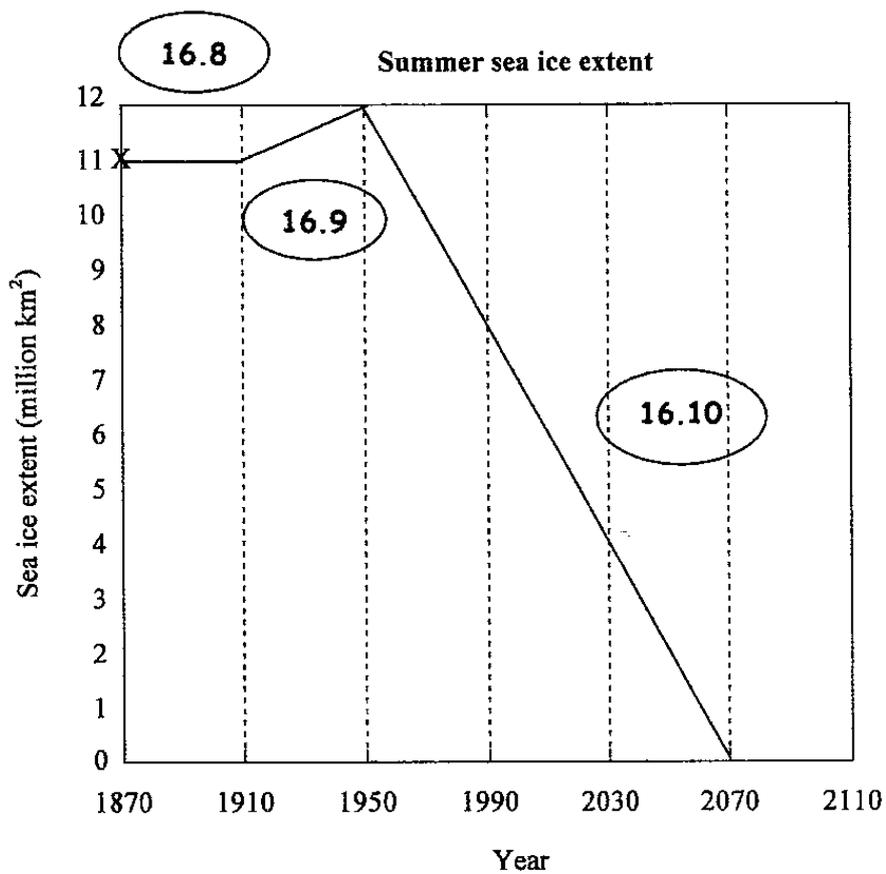


Temperature rise per decade

Upper scenario rate: 0.7 °C **16.5**

Middle scenario rate: 0.3 °C **16.6**

Lower scenario rate: 0.04 °C **16.7**



- 17.a go nuclear
- 17.b drink the oceans
- 17.c grow synthetic food
- 17.d prepare for chaos
- 17.e engineer / fix the climate
- 17.f change our mindset / way of thinking

18.a False

18.b True

18.c False

18.d True

19.1 **Jo** alarmed

19.2 **Sam** hopeful