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FOR OFFICIAL USE

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X033/13/01

NATIONAL QUALIFICATIONS 2012
FRIDAY, 18 MAY
9.00 AM – 12.00 NOON

GRAPHIC COMMUNICATION
ADVANCED HIGHER

Fill in these boxes and read what is printed below.

Full name of centre

Town

Forename(s)

Surname

Date of birth

Day	Month	Year					
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Scottish candidate number									

Number of seat

80 marks are allocated to this paper.

- 1 Answer **all** questions.
- 2 Read each question carefully before you answer.
- 3 Written answers may be in **ink** or **pencil**.
- 4 Drawings and sketches **must be in pencil**.
- 5 Coloured pencils may be used when sketching.
- 6 Dimensions are given in millimetres or as stated.
- 7 Orthographic drawings are in third angle projection.
- 8 The leaflet for Questions 1 and 2 has been supplied separately. Please ensure that you have this leaflet.
- 9 **At the end of the examination**
 - check that your name is on every sheet;
 - put the sheets in correct numerical order;
 - place this sheet on top of the others;
 - join all sheets together by **stapling** at the top left-hand corner;
 - before leaving the examination room, you must give these sheets to the Invigilator (if you do not you may lose all the marks for this paper).

Marks Grid

Question	Marks
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
Total Marks	



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1

Using the “**Scottish Seabird Centre – Get Closer**” leaflet.

Identify **three Design Principles** that are used in the leaflet, and describe how they are used.

Design Principle 1

Description:

2

Design Principle 2

Description:

2

Design Principle 3

Description:

2

Total (6)

2

Using the “**Scottish Seabird Centre – Get Closer**” leaflet.

Identify **three Design Elements** that are used in the leaflet, and describe how they are used.

Design Element 1

Description:

2

Design Element 2

Description:

2

Design Element 3

Description:

2

Total (6)

Candidate’s Name _____

3

Label, on the sample text, the typographical features given below.

(a) Typographical features:

- X-height
- Baseline
- Descender
- Meanline

Design Principles

(b) Explain, with the aid of annotated sketches, the difference between a serif and a sans serif typeface.

4

Total (6)

4

The choice of paper for a publication is important.

(a) State a suitable use for Calendered paper.

1

(b) Explain what is meant by the term “Imposition” when related to publishing.

1

(c) Explain the advantages of using 60 gsm paper as opposed to 100 gsm paper.

2

(d) Explain why paper opacity is important in printing.

1

Total (5)

5

(a) Symmetrical and Asymmetrical page layouts are found in DTP documents.

In the space below, use a sketch to illustrate the difference in these layouts.

6

This question relates to 3D CAD commands and knowledge.

(a) In 3D CAD work explain, with the aid of sketches, the following Boolean terms.

Union

Subtraction

Intersection

(b) In the space below, sketch and label a page with the following DTP terms.

- Text runaround (wrap)
- Bleed
- Rule
- Caption
- Indent

2

(b) Describe the difference between “solid of revolution” and “surface of revolution”.

3

(c) Explain what is meant by the 3D modelling term “primitive”.

1

1

Total (5)

5

Total (7)

Candidate's Name _____

The elevation, end elevation and plan of a bungalow are given.

Draw a measured two point perspective view of the bungalow.

The spectator point (SP), picture plane (PP), ground line (GL) and eye level (EL) are all given.

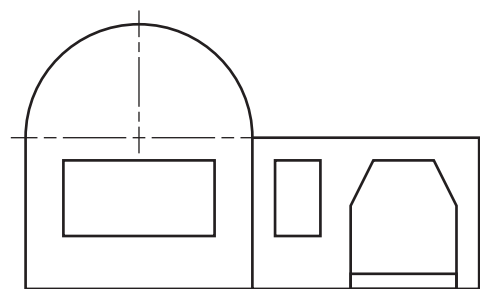
Do not show hidden detail.

(13 marks)

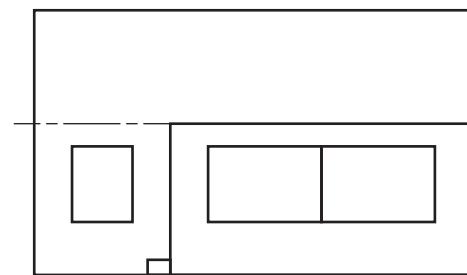
EL _____

GL _____

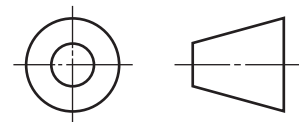
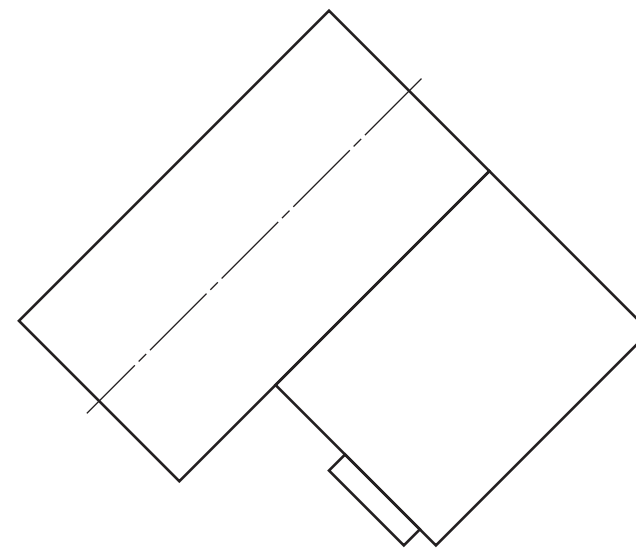
PP _____



ELEVATION



END ELEVATION



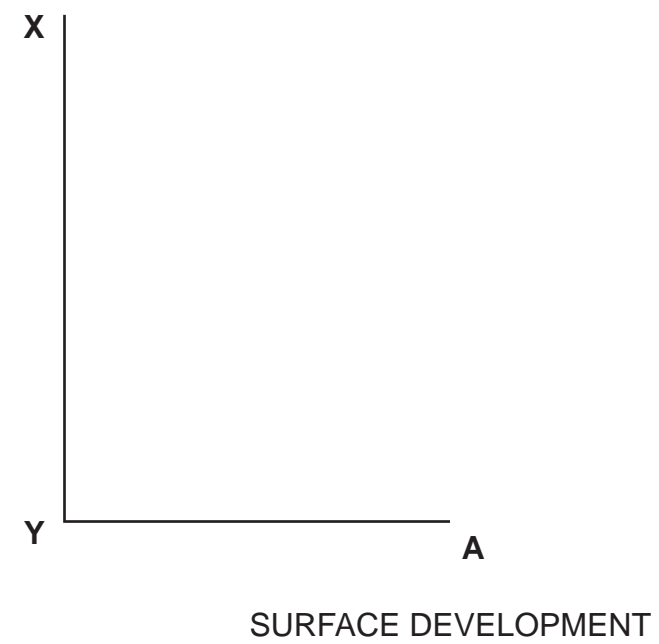
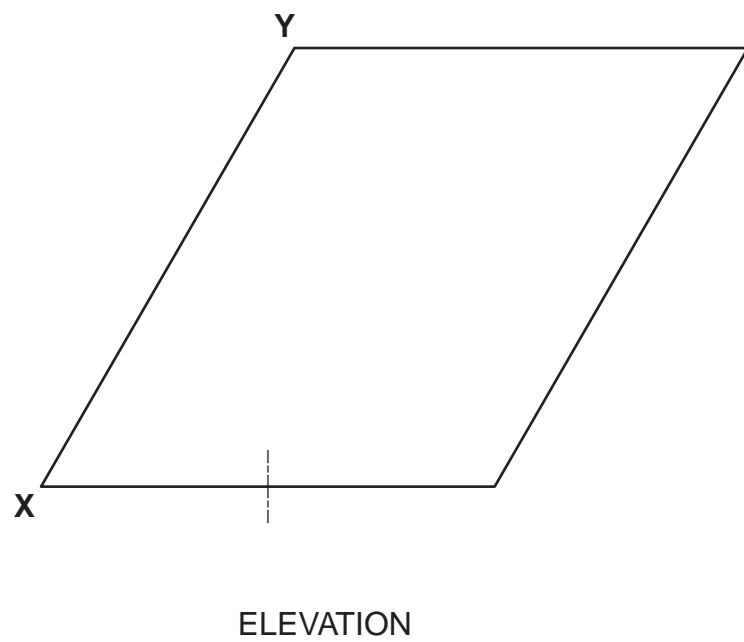
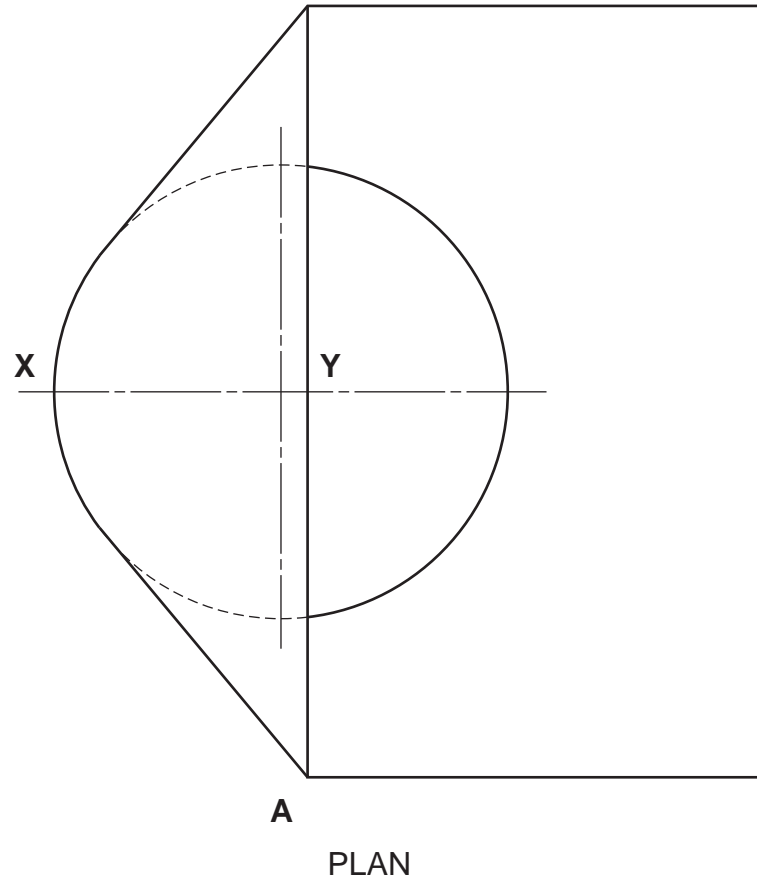
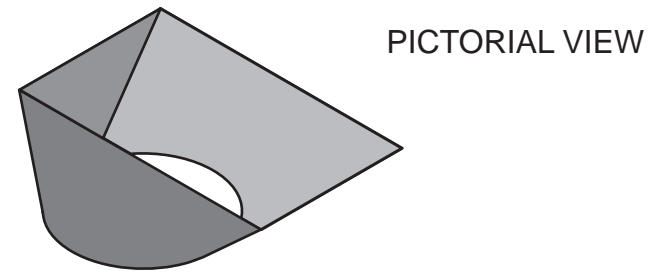
SP

<i>a</i>	
<i>b</i>	
<i>c</i>	
<i>d</i>	
<i>e</i>	
<i>f</i>	
<i>g</i>	
<i>h</i>	
<i>i</i>	
<i>j</i>	
<i>k</i>	
<i>l</i>	
<i>m</i>	
<i>n</i>	

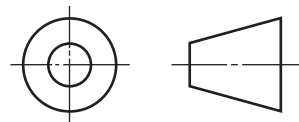
The plan, elevation and a pictorial view of a transition piece are given.

Draw, in the position indicated, the surface development, cut along seam **XY**.

(10 marks)



<i>a</i>	
<i>b</i>	
<i>c</i>	
<i>d</i>	
<i>e</i>	
<i>f</i>	
<i>g</i>	
<i>h</i>	
<i>i</i>	
<i>j</i>	
<i>k</i>	
<i>l</i>	
<i>m</i>	
<i>n</i>	



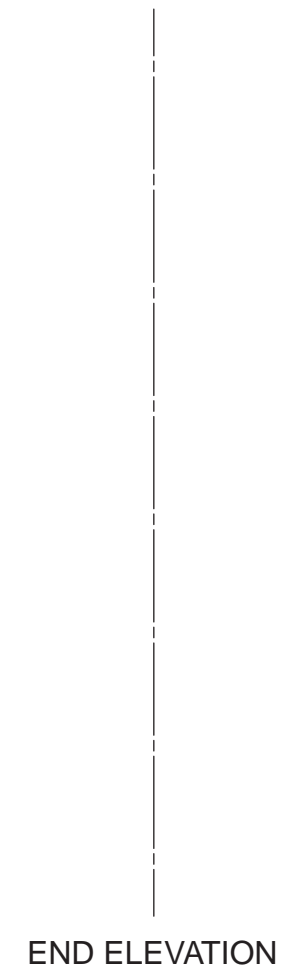
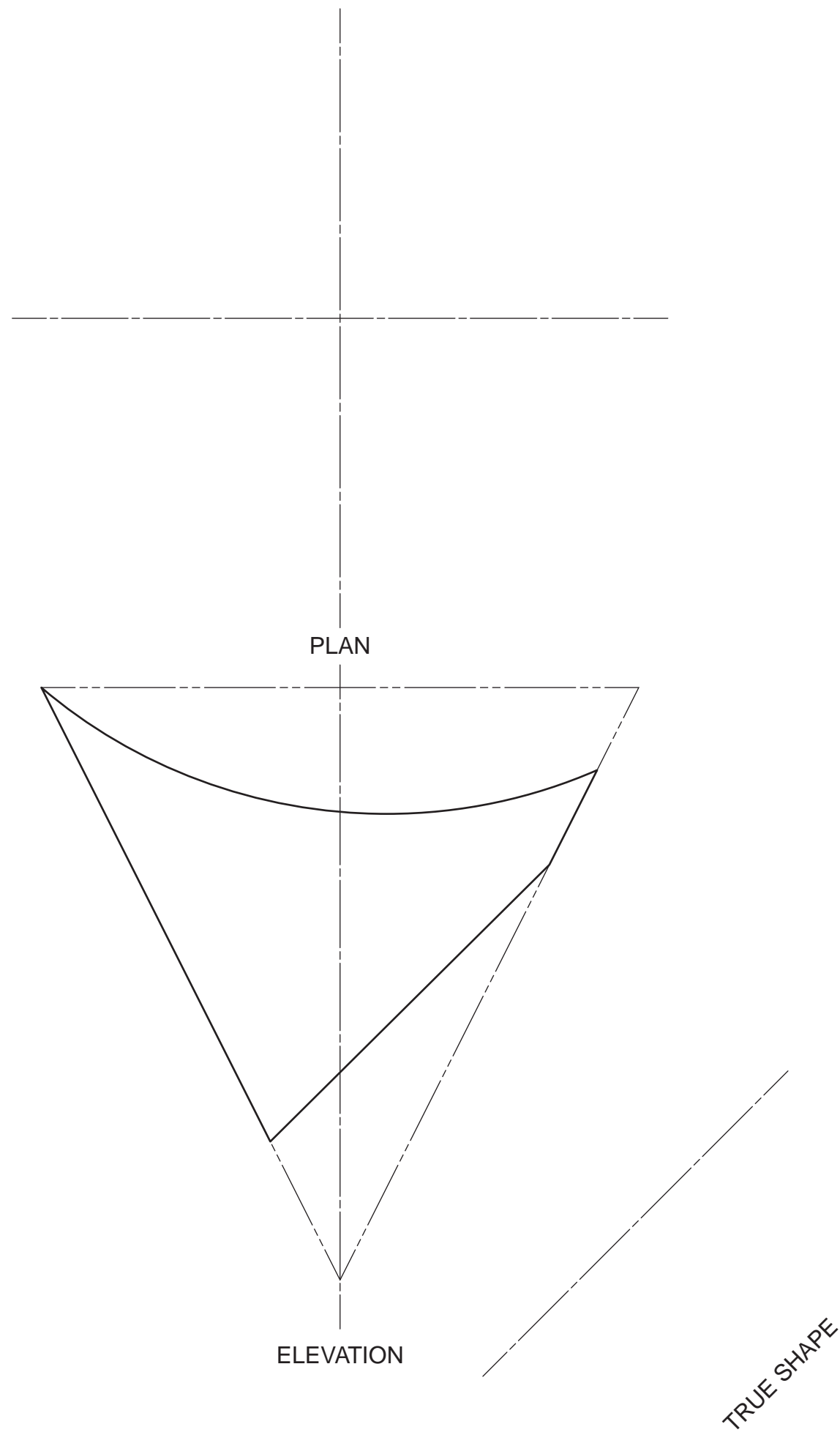
The elevation of a solid right cone is given.

Draw in the positions indicated:

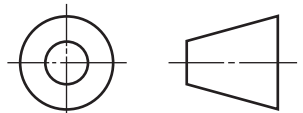
- (a) the plan;
- (b) the end elevation;
- (c) the true shape of the **sloping surface**.

Show all hidden detail.

(10 marks)



<i>a</i>	
<i>b</i>	
<i>c</i>	
<i>d</i>	
<i>e</i>	
<i>f</i>	
<i>g</i>	
<i>h</i>	
<i>i</i>	
<i>j</i>	
<i>k</i>	
<i>l</i>	
<i>m</i>	
<i>n</i>	



The elevation and incomplete plan of a hollow oblique cone are given.

Draw in the positions indicated:

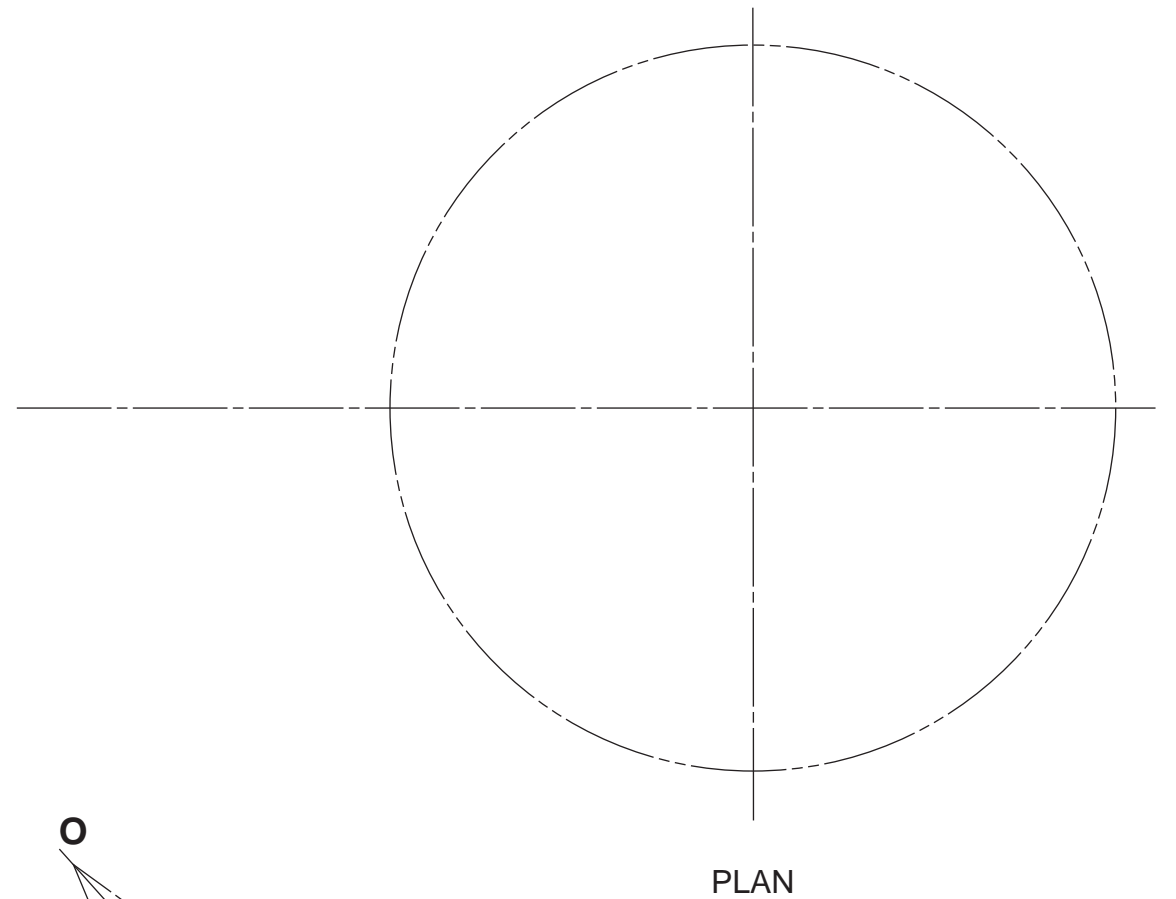
- (a) the completed plan;
- (b) the surface development of the cut oblique cone starting in the position indicated at **O**, and cut along seam **XX**.

Show all hidden detail.

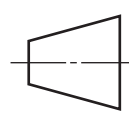
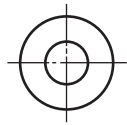
(12 marks)



DEVELOPMENT



<i>a</i>	
<i>b</i>	
<i>c</i>	
<i>d</i>	
<i>e</i>	
<i>f</i>	
<i>g</i>	
<i>h</i>	
<i>i</i>	
<i>j</i>	
<i>k</i>	
<i>l</i>	
<i>m</i>	
<i>n</i>	



ACKNOWLEDGEMENT

Leaflet for use with Questions 1 and 2—Double page spread is a reproduction of the *Scottish Seabird Centre* leaflet (not the most up-to-date version). Reproduced by kind permission of Scottish Seabird Centre.

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GRAPHIC
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ADVANCED HIGHER
Leaflet for use with
Questions 1 and 2



Leaflet for use with Questions 1 and 2

Something for All Seasons

Seabirds nesting, gannets diving, dolphins leaping, chicks hatching, seal pups snoozing – no two days are ever the same at the Scottish Seabird Centre!

Spring
The seabirds arrive on the islands and courtship begins. Gannets, guillemots, razorbills, terns, kittiwakes all arrive, with the puffins always last to appear! The first eggs are spotted in late March. Spring and summer is the best time to look out for dolphins and whales.

Summer
One of the highlights of the year, when the seabirds are rearing chicks. There are over 150,000 gannets on the Bass Rock and thousands of puffins on the islands. Check out our SOS Puffin campaign at www.seabird.org to save the puffins on the islands.

Autumn
The gannets are feeding chicks, many at the large white fluffy stage. In late autumn, the first winter visitors arrive along the shore and overhead the skies are filled with geese.

Winter
As the last gannets leave, the grey seals arrive to give birth to their fluffy white pups. A wonderful winter spectacle. Lots of winter waders, ducks and geese can be seen along the shore and overhead.

Opening Times
Open All Year - except Christmas Day
April - September
Monday - Sunday 10.00am - 6.00pm
February, March and October
Monday - Friday 10.00am - 5.00pm
Saturday - Sunday 10.00am - 5.30pm
November - January
Monday - Friday 10.00am - 4.00pm
Saturday - Sunday 10.00am - 5.30pm
Last admission to Discovery Centre and Café 45 minutes before closing.

Save time and buy your tickets online at www.seabird.org

Easy to Get To!

BY TRAIN
The quickest and most environmentally friendly way to travel. Great value package includes return train ticket, plus a day pass for the Centre.
Tel: 08457 550033 or www.firstgroup.com/scotrail

BY BUS
Regular bus services operate from Edinburgh (service no 124/X5) run by First Bus 0870 6082608, from Haddington (no 121 run by First Bus) and from Dunbar (no 120 run by Eve Coaches 01368 865500).

BY CAR
Only 25 miles/ 40kms from the centre of Edinburgh and less than an hour from the English border, the Scottish Seabird Centre is signposted from the A1, north and south. Parking will be refunded with your admission ticket.

Full disabled access, facilities and parking, children's facilities and baby changing. Guide dogs welcome.

The Scottish Seabird Centre
The Harbour, North Berwick, EH39 4SS
Tel: 01620 890202 Fax: 01620 890222
E-mail: info@seabird.org
www.seabird.org

The Seabird Centre is an independent conservation and education charity dedicated to inspiring people to understand and care for wildlife and the natural environment. (Registered charity SC025637)

Get Closer!

At the award-winning Scottish Seabird Centre

PICK UP YOUR FREE PUFFIN!
See inside for details Plus £1 OFF our guide book.

← SIDE ONE

SIDE TWO →

A Fantastic Day Out!

There's nowhere else like it in the world! A world leader in wildlife viewing and winner of more than 20 major awards...

www.seabird.org

From the Seabird Centre's stunning location, overlooking the sea, you'll experience a close encounter with nature to remember. An all weather attraction. Descend into the exciting Discovery Centre with amazing live Cameras, Wildlife Cinema, Kids' Zone, saltwater Aquarium, Environment Zone and Migration Flyway. Open all year, there is also a Gift Shop, Café with open decking, boat trips to the islands... plus a packed programme of events!

"The Bass Rock, truly one of the wildlife wonders of the world" Sir David Attenborough

Relax and Unwind

Enjoy delicious food and drink all day in our Licensed Café with open decking and panoramic views over the sea and beach. Home-baking and home made specials. Food and drink served all day.

Retail Therapy

You're guaranteed to find something different in our attractive Gift Shop. Speciality gifts, local arts and crafts, wildlife and green souvenirs. Paintings and prints in our Gallery.

Fantastic Value!

Become a member and enjoy free entry all year. Special events and offers, discount in our Shop and Café and boat trips. Join online at www.seabird.org or upgrade to membership on the day you visit and we'll refund your admission. As an education and conservation charity, we depend on our members to survive.

Seabird Safaris to the Islands!

Get on board our Seabird Safari Boat Trips around the islands and find out about our SOS Puffin Project to save the puffins. For the experience of a lifetime, you can book our photographic trips, landing on the Bass Rock. Call 01620 890202 or visit www.seabird.org for more information.