

**OXFORD CAMBRIDGE AND RSA EXAMINATIONS  
GCSE (9–1)**

**J351/01**

**ENGLISH LANGUAGE  
Communicating information and ideas  
READING INSERT**

**TUESDAY 5 JUNE 2018: Morning  
TIME ALLOWED: 2 hours  
plus your additional time allowance  
MODIFIED ENLARGED 24pt**

**YOU MUST HAVE:  
the Question Paper**

**READ INSTRUCTIONS OVERLEAF**



**INSTRUCTIONS**

**The materials in this Reading Insert are for use with the questions in Section A of the Question Paper.**

## **Details of text extracts:**

### **Text 1**

**Text: adapted from ‘Walden, or Life in the Woods’**

**Author: Henry David Thoreau (1854)**

### **Text 2**

**Text: adapted from ‘Journey to the Ants’**

**Authors: Bert Holldobler and Edward O. Wilson (1994)**

## **Text 1**

**The poet Henry David Thoreau moved into a cabin he built for himself next to a lake in America. He lived there alone for two years, growing his own food and observing the natural world.**

**One day, when I went to my wood-pile, I observed two large ants, the one red, the other black and much larger, fiercely contending with one another. Having once got hold they never let go but struggled and wrestled and rolled**  
**5 incessantly.**

**Looking farther, I was surprised to find that the woodchips were covered with such combatants, that it was a war between two races of ants, and that the red were always pitted against the black. The ants covered all the hills and**  
**10 vales in my woodyard, and the ground was already strewn with the dead and the dying. It was the only battle which I have ever witnessed, the only battlefield I have ever trod, while the battle was still raging. On every side the ants were engaged in deadly combat, yet without any noise that I**  
**15 could hear, and human soldiers never fought so resolutely.**

**I watched a couple of ants that were locked in each other's embraces, prepared now at noonday to fight till the sun went down or life went out. They fought with more pertinacity than bulldogs. Neither manifested the least**  
**20 disposition to retreat. It was evident that their battle cry was conquer or die. In the meanwhile, there came along a single red ant. He saw this unequal combat from afar – for the black ant was nearly twice the size of the red – and drew near with rapid pace till he stood on his guard within half an**  
**25 inch of the combatants. Then, watching his opportunity, he sprang upon the black warrior.**

**I was myself excited even as if they had been men. The more you think of it, the less the difference. Certainly, there is not a fight recorded in history that will bear a moment's**  
**30 comparison with this, whether for the numbers engaged in it, or for the patriotism and heroism displayed. I picked up the woodchip on which the three ants I have described**

35 were struggling and carried it into my house, and placed it under a glass tumbler on my window-sill in order to see the outcome.

40 They struggled half-an-hour longer under the tumbler and, when I looked again, the black soldier had severed the heads of his foes from their bodies. The still-living heads were hanging on either side of him like ghastly trophies and he was endeavouring with feeble struggles to divest himself of them, which, at length, after half-an-hour or more, he accomplished. I raised the tumbler, and he went off over the window-sill in that crippled state. Whether he finally survived that combat and spent the remainder of his days in  
45 a rest home for war veterans I do not know.

I never learned which party was victorious, nor the cause of the war, but, for the rest of that day, I felt as if I had had my feelings excited and harrowed by witnessing the struggle, the ferocity and the carnage of a human battle before my  
50 door.

## **Text 2**

**The scientist Edward Wilson has studied the lives of ants for many years. Here Edward describes how his friend Bert developed an interest in the natural world.**

**5 Bert and I entered the study of insects by different routes of academic tradition, but were both impelled by a common childhood pleasure in the study of insects and encouragement by adults at a critical time of our mental development.**

**10 For Bert the beginning was on a lovely early summer day in Bavaria just before massive air raids brought World War II home to Germany. He was seven years old and had just been reunited with his father, Karl, a doctor on duty with the German army in Finland. Karl had obtained leave to visit his family. He took Bert on a walk through the woods, just to look around and talk.**

**15 But this was not just an ordinary stroll. Karl, an ardent zoologist, had a particular interest in ant societies. He was an internationally known expert on the many curious small wasps and beetles that live in ant nests. It was natural on this occasion for him to turn over rocks and small logs on the trail to see what was living underneath. Rooting through the soil to see its teeming life is one of the pleasures of entomology.**

**25 One pile of wood sheltered a colony of large carpenter ants. Caught for an instant in the sunlight, the shiny blackish-brown worker ants rushed frantically to seize and carry grublike larvae and cocoon-encased pupae (their immature sisters) down the subterranean channels of the nest. This sudden apparition riveted young Bert. What an exotic and beautiful world! How complete and well formed! A whole society had revealed itself for an instant, then trickled magically out of sight, like water into dry soil, back to the subterranean world to resume a way of life strange**

**30 beyond imagination.**

35 After the war Bert's home was filled with pets, including, at various times, dogs, mice, fish, guinea pigs, a fox, a heron, a jackdaw and a large salamander called an axolotl. A guest of special interest to Bert was a human flea which he kept in a vial and allowed to feed on his own blood in an early attempt at scientific research.

40 Above all, encouraged by the example of his father and the loving patience of his mother, Bert kept ants. He gathered live colonies and studied them in artificial nests, learning the local species, drawing their distinctive anatomical traits, and observing their behavior. All the while his enthusiasms bubbled over. On top of everything else he collected butterflies and beetles as yet another hobby. He was  
45 obsessed by the diversity of life, the die was cast, and his hopes now focused on a career in biology.

### **Copyright Information**

**OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website ([www.ocr.org.uk](http://www.ocr.org.uk)) after the live examination series.**

**If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.**

**For queries or further information please contact the Copyright Team, First Floor, 9 Hills Road, Cambridge CB2 1GE.**

**OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.**