

Fifth Edition

NorthStar 4

Reading & Writing

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Dedication

To Connie, Woody, Joan, and Phil

NorthStar: Reading & Writing Level 4, Fifth Edition

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WELCOME TO NORTHSTAR

A Letter from the Series Editors

We welcome you to the 5th edition of NorthStar Reading & Writing Level 4.

Engaging content, integrated skills, and critical thinking continue to be the touchstones of the series. For more than 20 years *NorthStar* has engaged and motivated students through contemporary, authentic topics. Our online component builds on the last edition by offering new and updated activities.

Since its first edition, *NorthStar* has been rigorous in its approach to critical thinking by systematically engaging students in tasks and activities that prepare them to move into high-level academic courses. The cognitive domains of Bloom's taxonomy provide the foundation for the critical thinking activities. Students develop the skills of analysis and evaluation and the ability to synthesize and summarize information from multiple sources. The capstone of each unit, the final writing or speaking task, supports students in the application of all academic, critical thinking, and language skills that are the focus of unit.

The new edition introduces additional academic skills for 21st century success: note-taking and presentation skills. There is also a focus on learning outcomes based on the Global Scale of English (GSE), an emphasis on the application of skills, and a new visual design. These refinements are our response to research in the field of language learning in addition to feedback from educators who have taught from our previous editions.

NorthStar has pioneered and perfected the blending of academic content and academic skills in an English Language series. Read on for a comprehensive overview of this new edition. As you and your students explore NorthStar, we wish you a great journey.

Carol Numrich and Frances Boyd, the editors

New for the FIFTH EDITION

New and Updated Themes

The new edition features one new theme per level (i.e., one new unit per book), with updated content and skills throughout the series. Current and thought-provoking topics presented in a variety of genres promote intellectual stimulation. The real-world-inspired content engages students, links them to language use outside the classroom, and encourages personal expression and critical thinking.

Learning Outcomes and Assessments

All unit skills, vocabulary, and grammar points are connected to GSE objectives to ensure effective progression of learning throughout the series. Learning outcomes are present at the opening and closing of each unit to clearly mark what is covered in the unit and encourage both pre- and post-unit self-reflection. A variety of assessment tools, including online diagnostic, formative, and summative assessments and a flexible gradebook aligned with clearly identified unit learning outcomes, allow teachers to individualize instruction and track student progress.

Note-Taking as a Skill in Every Unit

Grounded in the foundations of the Cornell Method of note-taking, the new note-taking practice is structured to allow students to reflect on and organize their notes, focusing on the most important points. Students are instructed, throughout the unit, on the most effective way to apply their notes to a classroom task, as well as encouraged to analyze and reflect on their growing note-taking skills.

Explicit Skill Instruction and Fully-Integrated Practice

Concise presentations and targeted practice in print and online prepare students for academic success. Language skills are highlighted in each unit, providing students with multiple, systematic exposures to language forms and structures in a variety of contexts. Academic and language skills in each unit are applied clearly and deliberately in the culminating writing or presentation task.

Scaffolded Critical Thinking

Activities within the unit are structured to follow the stages of Bloom's taxonomy from *remember* to *create*. The use of APPLY throughout the unit highlights culminating activities that allow students to use the skills being practiced in a free and authentic manner. Sections that are focused on developing critical thinking are marked with to highlight their critical focus.

Explicit Focus on the Academic Word List

words are highlighted at the end of the unit and in a master list at the end of the book.

The Pearson Practice English App

The **Pearson Practice English App** allows students on the go to complete vocabulary and grammar activities, listen to audio, and watch video.

ExamView

ExamView Test Generator allows teachers to customize assessments by reordering or editing existing questions, selecting test items from a bank, or writing new questions.

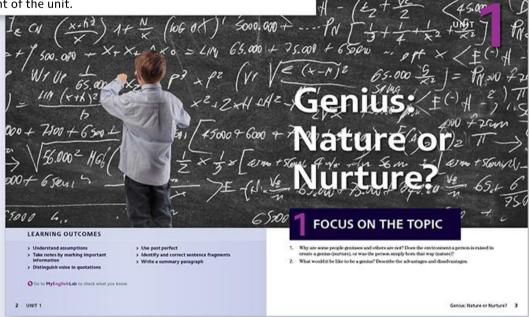
MyEnglishLab

New and revised online supplementary practice maps to the updates in the student book for this edition.

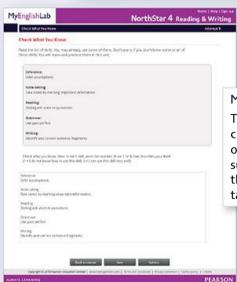
THE NORTHSTAR UNIT

1 FOCUS ON THE TOPIC

Each unit begins with an eye-catching unit opener spread that draws students into the topic. The learning outcomes are written in simple, student-friendly language to allow for self-assessment. Focus on the Topic questions connect to the unit theme and get students to think critically by making inferences and predicting the content of the unit.



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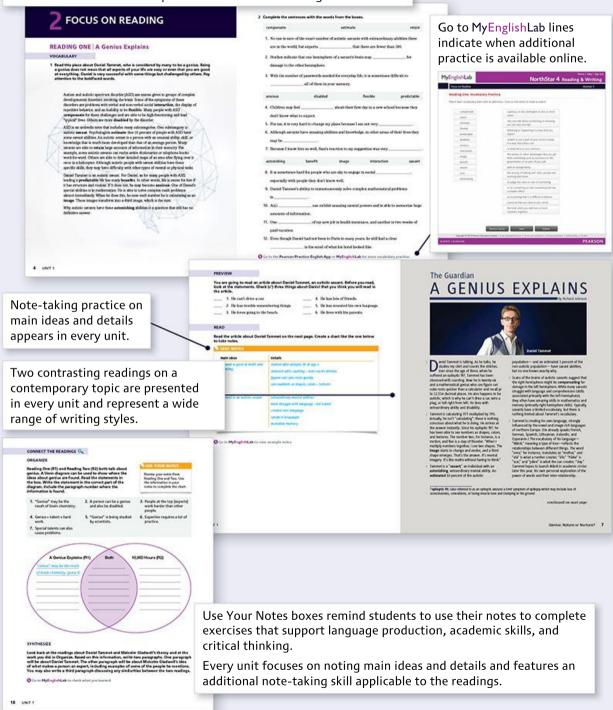


MyEnglishLab

The "Check What You Know" pre-unit diagnostic checklist provides a short self-assessment based on each unit's GSE-aligned learning outcomes to support the students in building an awareness of their own skill levels and to enable teachers to target instruction to their students' specific needs.

2 FOCUS ON READING

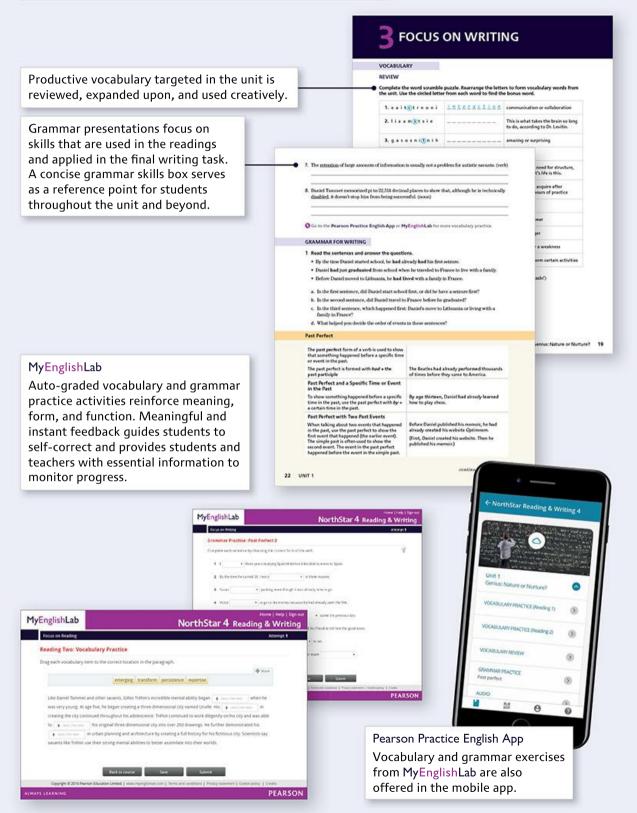
A vocabulary exercise introduces words that appear in the readings, encourages students to guess the meanings of the words from context, and connects to the theme presented in the final writing task.



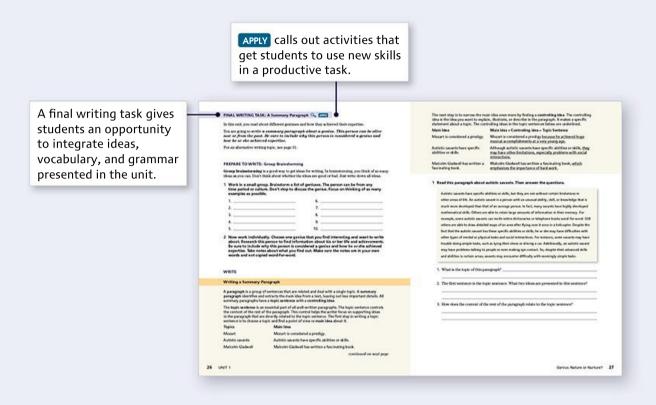
EXPLICIT SKILL INSTRUCTION AND PRACTICE



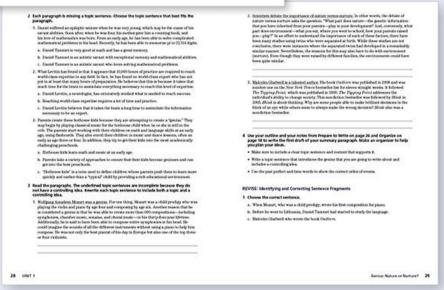
3 FOCUS ON WRITING



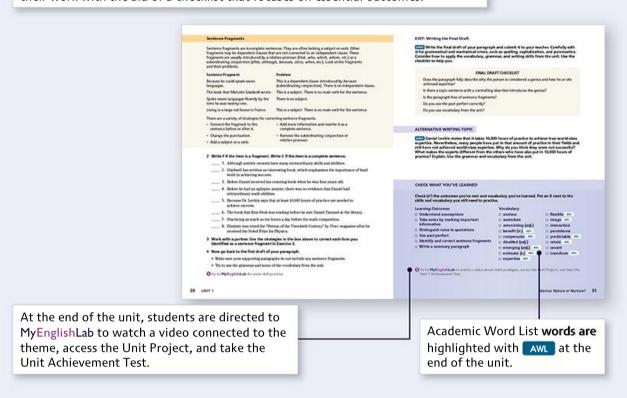
A TASK-BASED APPROACH TO PROCESS WRITING



Each unit presents different stages of the writing process and encourages the structured development of writing skills both practical and academic.



Students continue through the writing process to learn revision techniques that help them move toward coherence and unity in their writing. Finally, students edit their work with the aid of a checklist that focuses on essential outcomes.





COMPONENTS

Students can access the following resources on the Pearson English Portal.

Classroom Audio and Videos

Classroom audio (the readings for the Reading & Writing strand and the listenings and exercises with audio for the Listening & Speaking strand) and the end-of-unit videos are available on the portal.

Etext

Offering maximum flexibility in order to meet the individual needs of each student, the digital version of the student book can be used across multiple platforms and devices.

MyEnglishLab

MyEnglish Lab offers students access to additional practice online in the form of both autograded and teacher-graded activities. Auto-graded activities support and build on the academic and language skills presented and practiced in the student book. Teacher-graded activities include speaking and writing.

Pearson Practice English App

Students use the Pearson Practice English App to access additional grammar and vocabulary practice, audio for the listenings and readings from the student books, and the end-of-unit videos on the go with their mobile phone.

INNOVATIVE TEACHING TOOLS

With instant access to a wide range of online content and diagnostic tools, teachers can customize learning environments to meet the needs of every student. Digital resources, all available on the Pearson English Portal, include **MyEnglishLab** and ExamView.

Using MyEnglishLab, NorthStar teachers can

Deliver rich online content to engage and motivate students, including

- student audio to support listening and speaking skills, in addition to audio versions of all readings.
- engaging, authentic video clips tied to the unit themes.
- opportunities for written and recorded reactions to be submitted by students.

Use diagnostic reports to

- view student scores by unit, skill, and activity.
- monitor student progress on any activity or test as often as needed.
- analyze class data to determine steps for remediation and support.

Access Teacher Resources, including

- unit teaching notes and answer keys.
- downloadable diagnostic, achievement and placement tests, as well as unit checkpoints.
- printable resources including lesson planners, videoscripts, and video activities.
- · classroom audio.

Using ExamView, teachers can customize Achievement Tests by

- reordering test questions.
- editing questions.
- selecting questions from a bank.
- writing their own questions.

SCOPE AND SEQUENCE

		2 Facing Life's Obstacles Pages: 32–59 Reading 1: A Life of Twists and Turns: The Story of Frank McCourt Reading 2: Marla Runyan Has Never Lost Sight of Her Goals
Inference	Understanding assumptions	Inferring the meaning of idioms and expressions
Note-Taking	Taking notes by marking important information	Taking notes on main ideas with questions
Reading	Distinguishing voice in quotations	Recognizing positive redundancy
Grammar	Past perfect	Gerunds and infinitives
Revise	Identifying and correcting sentence fragments	Choosing appropriate supporting sentences
Final Writing Task	A summary paragraph	A biographical paragraph
Video	Child prodigies	A girl with autism
Assessments	Pre-Unit Diagnostic: Check What You Know Checkpoint 1 Checkpoint 2 Unit Achievement Test	Pre-Unit Diagnostic: Check What You Know Checkpoint 1 Checkpoint 2 Unit Achievement Test
Unit Project	Write a report on a genius	Write a biographical essay on a famous person who has overcome an obstacle

3 Making Medical Decisions Pages: 60–85 Reading 1: Genetic Testing and Disease: Would You Want to Know? Reading 2: Norman Cousins's Laughter Therapy	4 Instinct or Intellect? Pages: 86–115 Reading 1: Extreme Perception and Animal Intelligence Reading 2: How Smart are Animals?
Inferring degree of support	Inferring the use of hedging
Taking notes on cause and effect with a graphic organizer	Taking notes with outlining
Organizing the sequence of events in a time line	Recognizing the role of quoted speech
Past unreal conditionals	Adjective clauses
Writing introductions and hooks	Paraphrasing
An opinion essay	A summary in journalistic style
Sleep deprivation and health issues	Talking to animals
Pre-Unit Diagnostic: Check What You Know Checkpoint 1 Checkpoint 2 Unit Achievement Test	Pre-Unit Diagnostic: Check What You Know Checkpoint 1 Checkpoint 2 Unit Achievement Test
Prepare a written presentation on genetic testing	Write a research summary on a famous animal

SCOPE AND SEQUENCE

	5 Too Much of a Good Thing? Pages: 116–143 Reading 1: Death Do Us Part Reading 2: Toward Immortality: The Social Burden of Longer Lives	6 Making a Difference Pages: 144–175 Reading 1: Justin Lebo Reading 2: Some Take the Time Gladly Problems with Mandatory Volunteering
Inference	Inferring attitudes and feelings	Inferring people's reactions
Note-Taking	Taking notes with signposts	Taking compare and contrast notes with a t-chart
Reading	Using titles and headings to identify main ideas	Recognizing persuasive language
Grammar	Simple past, present perfect, and present perfect progressive	Concessions
Revise	Using figurative language	Writing introductions and thesis statements
Final Writing Task	A descriptive essay	A persuasive essay
Video	The long lives of the residents of Acciaroli	Philanthropy
Assessments	Pre-Unit Diagnostic: Check What You Know Checkpoint 1 Checkpoint 2 Unit Achievement Test	Pre-Unit Diagnostic: Check What You Know Checkpoint 1 Checkpoint 2 Unit Achievement Test
Unit Project	Write a report about a part of the world where people live long lives using questions as guides	Create a powerpoint presentation or poster about philanthropy in your community

7 An Ocean of Problems Pages: 176–205 Reading 1: Sea Unworthy: A Personal Journey into the Pacific Garbage Patch	8 Managing Your Smartphone Pages: 206–239 Reading 1: Smartphone-Induced Problems in the Twenty-First Century Reading 2: Unplugging Wired Kids: A
Reading 2: Two Proposals to Clean Up Our Oceans of Garbage: Will Either Work?	Vacation from Technology and Social Media
Inferring the author's point of view and possible bias	Inferring an author's appeal to authority
Taking notes on pros and cons	Taking three-column notes to show time sequence
Creating headings based on main ideas	Identifying referents for the pronoun it
Subordinators and transitions	Subordinators and prepositional phrases
Writing conclusions	Using transitions
A problem-solution essay	A cause-and-effect essay
Water conservation in college dormitories	Video games
Pre-Unit Diagnostic: Check What You Know Checkpoint 1 Checkpoint 2 Unit Achievement Test	Pre-Unit Diagnostic: Check What You Know Checkpoint 1 Checkpoint 2 Unit Achievement Test
 Create a powerpoint or presentation about a solution to an environmental issue	Conduct research and give a powerpoint presentation about the evolution of a technological device

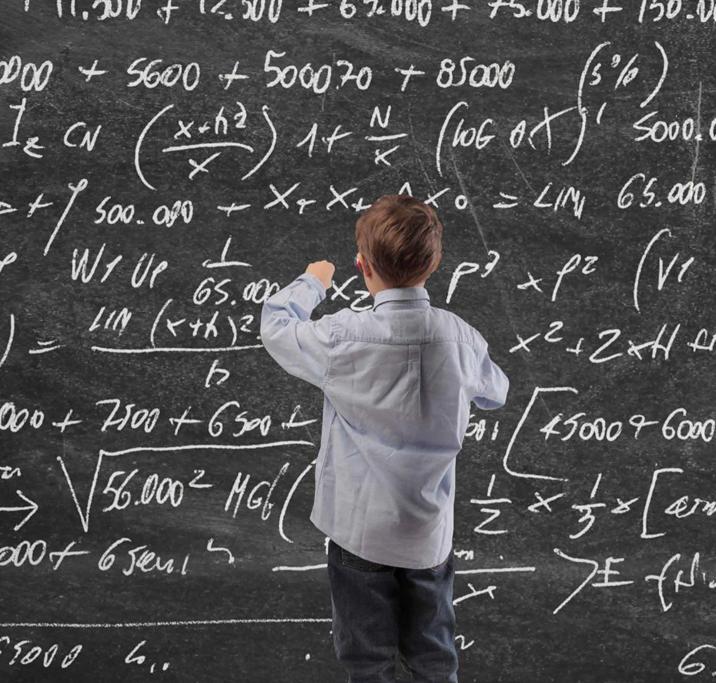
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—Andrew K. English and Laura Monahon English

REVIEWERS

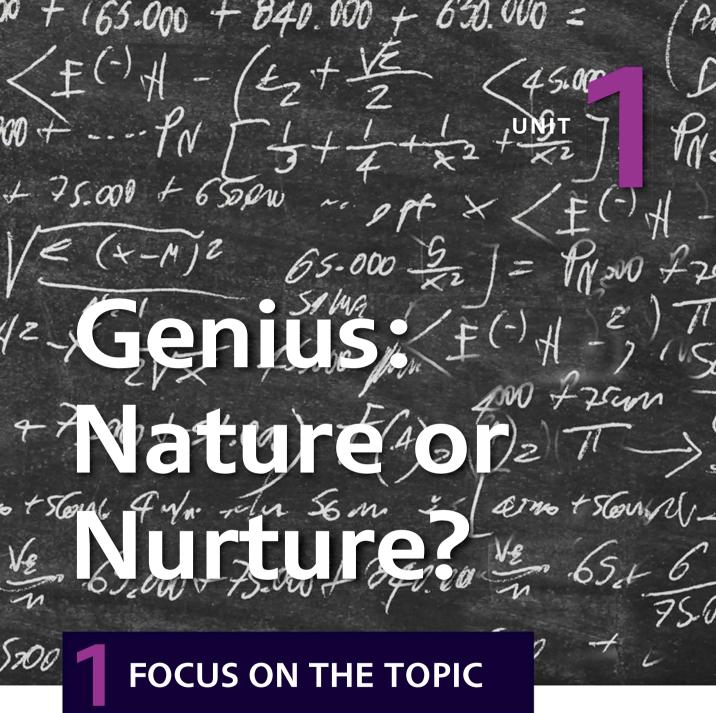
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LEARNING OUTCOMES

- > Understand assumptions
- > Take notes by marking important information
- > Distinguish voice in quotations

- > Use past perfect
- > Identify and correct sentence fragments
- > Write a summary paragraph
- (S) Go to MyEnglishLab to check what you know.



- Why are some people geniuses and others are not? Does the environment a person is raised in create a genius (nurture), or was the person simply born that way (nature)?
- 2. What would it be like to be a genius? Describe the advantages and disadvantages.

POCUS ON READING

READING ONE | A Genius Explains

VOCABULARY

1 Read this piece about Daniel Tammet, who is considered by many to be a genius. Being a genius does not mean that all aspects of your life are easy or even that you are good at everything. Daniel is very successful with some things but challenged by others. Pay attention to the boldfaced words.

Autism and autistic spectrum disorder (ASD) are names given to groups of complex developmental disorders involving the brain. Some of the symptoms of these disorders are problems with verbal and non-verbal social **interaction**, the display of repetitive behavior, and an inability to be **flexible**. Many people with ASD **compensate** for these challenges and are able to be high-functioning and lead "typical" lives. Others are more **disabled** by the disorder.

ASD is an umbrella term that includes many subcategories. One subcategory is autistic **savant**. Psychologists **estimate** that 10 percent of people with ASD have some savant abilities. An autistic savant is a person with an unusual ability, skill, or knowledge that is much more developed than that of an average person. Many savants are able to **retain** large amounts of information in their memory. For example, some autistic savants can recite entire dictionaries or telephone books word-for-word. Others are able to draw detailed maps of an area after flying over it once in a helicopter. Although autistic people with savant abilities have these specific skills, they may have difficulty with other types of mental or physical tasks.

Daniel Tammet is an autistic savant. For Daniel, as for many people with ASD, leading a **predictable** life has many **benefits**. In other words, life is easier for him if it has structure and routine. If it does not, he may become **anxious**. One of Daniel's special abilities is in mathematics. He is able to solve complex math problems almost immediately. When he does this, he sees each number he is calculating as an **image**. These images transform into a third image, which is the sum.

Why autistic savants have these **astonishing** abilities is a question that still has no definitive answer.

2 Complete the sentences with the words from the boxes.

compensate		estimate	retain
		f autistic savants with extraor	-
2. Studies indicate the damage to the other		of a savant's brain may	for
	f passwords neede _ all of them in you	d for everyday life, it is somet ur memory.	imes difficult to
anxious	disabled	flexible	predictable
don't know what to 5. For me, it is very h 6. Although savants h may be	e expect. ard to change my p nave amazing abilit	_ about their first day in a new plans because I am not very _ ties and knowledge, in other a eaction to my suggestion was v	reas of their lives they
astonishing	benefit	image interac	ction savant
especially with peo	ople they don't kno	are shy to engage in social w well. eously solve complex mathem	
is 10. A(n) amounts of information	can exhibit a	amazing mental powers and is	s able to memorize huge
11. One paid vacation.	of my new jo	ob is health insurance, and an	other is two weeks of
_		Paris in many years, he still ha	ad a clear
13	_ in his mind of wh	nat his hotel looked like.	

PREVIEW

You are going to read an article about Daniel Tammet, an autistic savant. Before you read, look at the statements. Check (/) three things about Daniel that you think you will read in the article.

	1. He can't drive a car.	4. He has lots of friends.	e has lots of friends.
a 	2. He has trouble remembering things.	5. He has invented his own langua	e has invented his ow
	3. He loves going to the beach.	6. He lives with his parents.	e lives with his paren

READ

Read the article about Daniel Tammet on the next page. Create a chart like the one below to take notes.

Main Ideas	Details	
Tammet is good at math and	started after epileptic fit at age 3	
counting	obsessed with counting – even counts stitches	
	figures out cube roots quickly	
	sees numbers as shapes, colors + textures	
Tammet is an autistic savant	extraordinary mental abilities	
	most struggle with language - not Daniel	
	created own language	
	speaks 8 languages	
	incredible memory	

Go to MyEnglishLab to view example notes.

The Guardian



A GENIUS EXPLAINS

By Richard Johnson



- aniel Tammet is talking. As he talks, he studies my shirt and counts the stitches. Ever since the age of three, when he suffered an epileptic fit¹, Tammet has been obsessed with counting. Now he is twenty-six and a mathematical genius who can figure out cube roots quicker than a calculator and recall pi to 22,514 decimal places. He also happens to be autistic, which is why he can't drive a car, wire a plug, or tell right from left. He lives with extraordinary ability and disability.
- 2 Tammet is calculating 377 multiplied by 795.
 Actually, he isn't "calculating": there is nothing conscious about what he is doing. He arrives at the answer instantly. Since his epileptic fit, he has been able to see numbers as shapes, colors, and textures. The number two, for instance, is a motion, and five is a clap of thunder. "When I multiply numbers together, I see two shapes. The image starts to change and evolve, and a third shape emerges. That's the answer. It's mental imagery. It's like maths without having to think."
- 3 Tammet is a "savant," an individual with an astonishing, extraordinary mental ability. An estimated 10 percent of the autistic

- population— and an estimated 1 percent of the non-autistic population— have savant abilities, but no one knows exactly why.
- 4 Scans of the brains of autistic savants suggest that the right hemisphere might be **compensating** for damage in the left hemisphere. While many savants struggle with language and comprehension (skills associated primarily with the left hemisphere), they often have amazing skills in mathematics and memory (primarily right hemisphere skills). Typically, savants have a limited vocabulary, but there is nothing limited about Tammet's vocabulary.
- 5 Tammet is creating his own language, strongly influenced by the vowel and image-rich languages of northern Europe. (He already speaks French, German, Spanish, Lithuanian, Icelandic, and Esperanto.) The vocabulary of his language—"Mänti," meaning a type of tree—reflects the relationships between different things. The word "ema," for instance, translates as "mother," and "ela" is what a mother creates: "life." "Päike" is "sun," and "päive" is what the sun creates: "day." Tammet hopes to launch Mänti in academic circles later this year, his own personal exploration of the power of words and their inter-relationship.

continued on next page

¹ **epileptic fit:** (also referred to as an epileptic seizure) a brief symptom of epilepsy which may include loss of consciousness, convulsions, or losing muscle tone and slumping to the ground