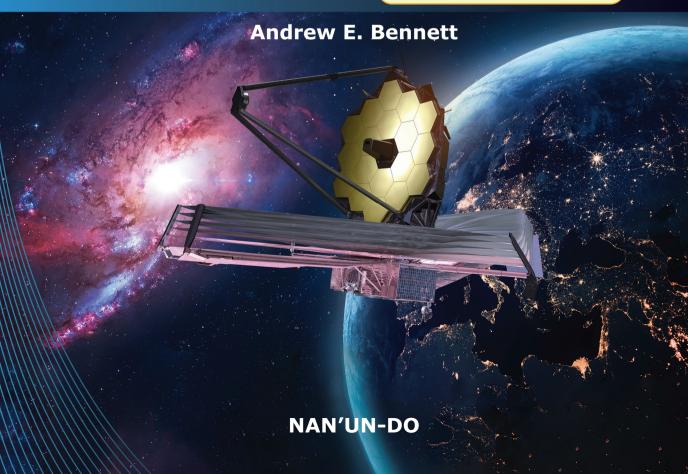


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Reading Fusion 1 <2nd Edition>

Andrew E. Bennett

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Written and designed by: Andrew E. Bennett

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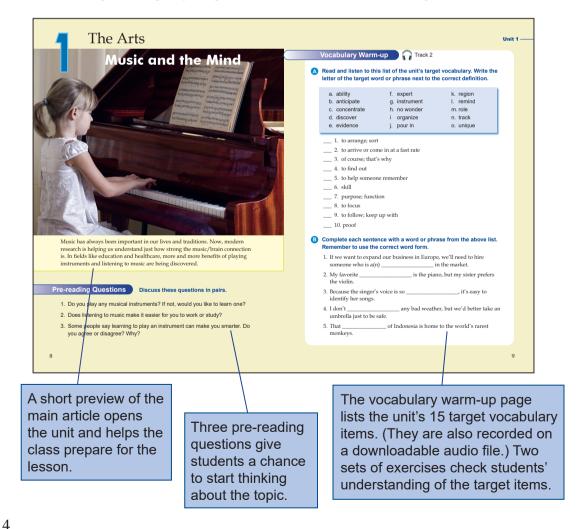
Introduction

Reading Fusion is a three-level series designed to help students improve all of their English skills. Each book contains 15 units which center on informative, thought-provoking articles about topics of current interest. A variety of important themes are covered, including the environment, health, technology, arts and entertainment, and many more.

Each unit's main reading passage is 500 words long in *Reading Fusion 1*, 600 words long in *Reading Fusion 2*, and 700 words long in *Reading Fusion 3*. Units open with a series of pre-reading warm-up activities. Part 1 of the unit consists of reading and vocabulary skill building exercises. Part 2 contains word part and grammar exercises, in addition to a set of listening and reading practice tests.

In the second edition of *Reading Fusion*, every unit has been updated and revised. That includes content updates for the reading passages, engaging new images on the first page of every unit, and a thorough revision of all the exercises.

The following is a page-by-page visual introduction to *Reading Fusion 1*.



Each reading passage is 500 words long. The unit's 15 target vocabulary items are indicated in bold. Line numbers to the left of the reading passage provide easy reference. The reading passage is recorded on a downloadable audio file. Part 1: Reading and Vocabulary Building Studies of the music/brain cor focus on classical music since it activates both the left and right sides of our brains. One study using MRI scans observed people's In all the world's cultures, people sing, play instrume brain activity as they listened to music music. Music plays such an important role in our lives that whole fields are dedicated to its study, including one looking into the biology of music. Experts 30 by composer William Boyce. The study are finding that because of the way our brains process music, learning to play short breaks between the movements of a 5 an instrument or just listening to music can have a wide range of benefits. piece. During each pause, the person's brain Music education has received a lot of attention in recent years. Learning to anticinated what would come next while organizing what he or she had just play an instrument can help children improve 35 heard. This process of sorting beginnings and endings is similar to the way math, science, and language skills. One study our brain organizes information and may explain why classical music can hel in Canada tracked children's IQ scores for nine improve memory 10 months, discovering that children who studied Some people are taking the music/brain connection to another level by listening music had the largest test score improvements to personalized "brain music." First, a person's brainwaves (which, like our The secret may lie in the way reading music 40 fingerprints, are **unique** to each of us) are measured. Then, using a mathematical and playing notes uses several regions of the procedure, the brainwaves are turned into short pieces of music. Listening to a "relaxing" piece (based on the person's slower brainwaves) can slow the heart brain, boosting our ability to learn school 15 subjects. For example, reading musical notes rate and lower blood pressure. An "activating" piece (based on his or her faster improves spatial reasoning skills, which are brainwaves) can help the person concentrate and prepare for a difficult task. essential in solving math problems like fractions 45 It's amazing how attuned our brains are to music. Some neuroscientists like Music is also used for medical purposes, such as in the trea Daniel Levitin (author of books such as The World in Six Songs: How the Musical which affect memory. The secret lies in the way the brain processes music.

20 One area near the forehead, the medial prefrontal cortex, connects music with Brain Created Human Nature) even think we're born with the ability to learn music, just as we all have the skills to learn language. After all, children without memories stored in two other areas: the amygdala and hippocampus. That's any training frequently make up songs while they play. With the evidence of why an old song can remind you of something that happened years ago. For 50 music's benefits **pouring in**, it's **no wonder** countries like Japan and Hungary patients suffering from diseases like Alzheimer's, listening to music can help make music study a part of their educational systems. People are recognizing unlock buried memories by strengthening musical pathways to those memorie that more than just a form of entertainment, music is also great for the brain 28 activate - turn on; make active
28 MBI (Magnetic Resonance Imaging) - device showing an internal image of a patient
30 composer - person who writes music
32 movement - section of a work of classical music
32 movement - section of a work of classical music
30 personalized - specially made for one person
41 procedure - method; sequence
42 attuned to - sensitive towards focused on
45 neuroscientist - person who studies the brain and nervous system
46 neuroscientist - person who studies the brain and nervous system dedicated to - focused on; committed to process - handle; deal with
IQ - "Intelligence Quotient" (widely used measure of intelligence) A caption beneath each Beneath the reading passage is a glossary with image shows its relevance easy-to-read definitions. to the article. To the left of each glossary item is the line number where the word or phrase can be found in the article.

Introduction Introduction

Following the passage are target vocabulary items. There are five reading comprehension three types of exercises: synonym, questions, including main fill in the blank, and word form. idea, detail, vocabulary, and analysis questions. Choose the best answer to each question. (A) Choose the answer that is a synonym for the word or phrase in italics.

1. The police usually do not arrest a person without evidence that he or she 1. () What is the main idea of the reading? Committed a crime.

A range B. activity C. proof A. Music therapy is effective in treating Alzheimer's patients.

B. The human brain is difficult to understand. C. Besides being enjoyable, music has real-world applications Airports can track planes all the way from take off to landing.
 A. follow B. board C. compare D. It's best to learn music at a very young age. 3. In that region of the country, the temperature often falls to 10 degrees below A. Those who had always listened to music B attention C area B. Those who studied music . Those who already had high IQs 4. Considering all the money that the shop is losing, it's no wonder they're going D. Those who could not play an instrument out of business.
A. so unfortunate B. very recent C. not surprising 3. () In line 28, what does "observed" mean? Computers are great at helping people organize photos and other information.
 A. relax
 B. sort
 C. concentrate A. heightened B. watched C. preserved D. composed Complete each sentence below with one of these words or phrases.
 Remember to use the correct word form. 4. () Why may classical music help our memories? with may classical music neip our memories?

A. Listening to it uses brain processes which we also use to record memories.

B. Classical music is easier to play than other types of music.

C. This type of music activates the left side of our brain, but not the right side. instrument pour in role unique ability 1. After the scientist won the Nobel Prize for chemistry, job offers and research D. Brain activity is highest when we listen to music being played. 5. () What can we infer about "brain music"?

A. It may not be effective at treating disease in the company is to make sure shipments arrive at B. Listening to the music is only helpful to those who excel at math. their intended destinations on time C. Each person's musical recording is different.

D. It is better at helping people relax than at helping them focus. 4. The ______ to speak Chinese is a great asset these days. Orchestras include string _____ Short Answers Write a full-sentence answer to each question. Circle the correct form of the words in parentheses. 1. How can reading musical notes make us better at math? 1. (Anticipate/Anticipation) is high that the recession will soon end. 2. The person who (discovers/discovery) a new planet can also name it. 2. What parts of the brain store memories? room must be kept very quiet 4. The watchmaker (expertly/expert) reassembled the antique clock. 3. In "brain music." how are a person's brainwayes turned into music? 5. The app can send you a (remind/reminder) of your important appointments These three questions are also based on the reading passage. Answers should

be one sentence long.

These vocabulary exercises check

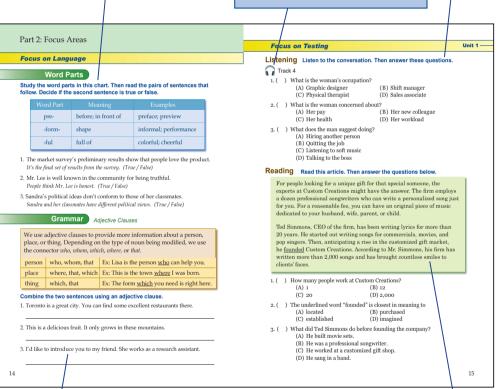
students' knowledge of the unit's 15

Improving knowledge of word parts is an excellent way to strengthen reading skills. This section presents three word parts (one prefix, one root, and one suffix). They are based on word parts found in the reading passage. A short exercise checks students' understanding of the material.

From unit to unit, this listening comprehension section alternates between a short conversation and a short talk. For recycling and retention, every conversation and short talk includes three of the unit's target vocabulary items.

The listening transcript can be found in the Teacher's Manual.

The conversations and short talks are recorded on downloadable audio files.



This section presents practical grammar structures with the goal of improving communicative grammar skills. First comes a short, simple explanation of the grammar point. That's followed by structural models (if applicable) and example sentences. Finally, a short exercise checks students' ability to apply what they've learned.

From unit to unit, this section alternates between a short reading comprehension passage (such as an article, e-mail, report, etc.) and a cloze passage. Every passage recycles three of the unit's target vocabulary items.

The Arts



Music has always been important in our lives and traditions. Now, modern research is helping us understand just how strong the music/brain connection is. In fields like education and healthcare, more and more benefits of playing instruments and listening to music are being discovered.

Pre-reading Questions

8

Discuss these questions in pairs.

- 1. Do you play any musical instruments? If not, would you like to learn one?
- 2. Does listening to music make it easier for you to work or study?
- 3. Some people say learning to play an instrument can make you smarter. Do you agree or disagree? Why?

Vocabulary Warm-up



Read and listen to this list of the unit's target vocabulary. Write the letter of the target word or phrase next to the correct definition.

	a. ability f. expert k. region b. anticipate g. instrument l. remind c. concentrate h. no wonder m. role d. discover i organize n. track e. evidence j. pour in o. unique
	 1. to arrange; sort 2. to arrive or come in at a fast rate 3. of course; that's why 4. to find out 5. to help someone remember 6. skill 7. purpose; function 8. to focus 9. to follow; keep up with 10. proof
B	Complete each sentence with a word or phrase from the above list. Remember to use the correct word form.
	1. If we want to expand our business in Europe, we'll need to hire someone who is a(n) in the market.
	2. My favorite is the piano, but my sister prefers the violin.
	3. Because the singer's voice is so, it's easy to identify her songs.
	4. I don't any bad weather, but we'd better take an umbrella just to be safe.
	5. That of Indonesia is home to the world's rarest monkeys.

Part 1: Reading and Vocabulary Building

Reading Passage



In all the world's cultures, people sing, play **instruments**, and celebrate with music. Music plays such an important **role** in our lives that whole fields are dedicated to its study, including one looking into the biology of music. **Experts** are finding that because of the way our brains process music, learning to play an instrument or just listening to music can have a wide range of benefits.

Music education has received a lot of attention in recent years. Learning to

play an instrument can help children improve math, science, and language skills. One study in Canada **tracked** children's IQ scores for nine months, **discovering** that children who studied music had the largest test score improvements. The secret may lie in the way reading music and playing notes uses several **regions** of the brain, boosting our **ability** to learn school subjects. For example, reading musical notes improves spatial reasoning skills, which are essential in solving math problems like fractions.



Reading notes may be one of the reasons why learning music improves math skills.

Music is also used for medical purposes, such as in the treatment of diseases which affect memory. The secret lies in the way the brain processes music.

One area near the forehead, the medial prefrontal cortex, connects music with memories stored in two other areas: the amygdala and hippocampus. That's why an old song can **remind** you of something that happened years ago. For patients suffering from diseases like Alzheimer's, listening to music can help unlock buried memories by strengthening musical pathways to those memories.

- 3 dedicated to focused on; committed to
- 4 process handle; deal with
- 9 IQ "Intelligence Quotient" (widely used measure of intelligence)
- 14 boost increase
- spatial reasoning the ability to mentally process shapes and patterns
- fraction part of a whole (ex: 1/2, 1/3)
- 23 Alzheimer's disease which affects memory (common among older people)
- 24 buried hidden; forgotten

- Studies of the music/brain connection often focus on classical music since it activates both the left and right sides of our brains. One study using MRI scans observed people's brain activity as they listened to music
- 30 by composer William Boyce. The study found that activity was highest during the short breaks between the movements of a piece. During each pause, the person's brain



A controlled, relaxed environment helps music listeners.

- anticipated what would come next while organizing what he or she had just
 heard. This process of sorting beginnings and endings is similar to the way our brain organizes information and may explain why classical music can help improve memory.
 - Some people are taking the music/brain connection to another level by listening to personalized "brain music." First, a person's brainwaves (which, like our
- fingerprints, are **unique** to each of us) are measured. Then, using a mathematical procedure, the brainwaves are turned into short pieces of music. Listening to a "relaxing" piece (based on the person's slower brainwaves) can slow the heart rate and lower blood pressure. An "activating" piece (based on his or her faster brainwaves) can help the person **concentrate** and prepare for a difficult task.
- It's amazing how attuned our brains are to music. Some neuroscientists like
 Daniel Levitin (author of books such as *The World in Six Songs: How the Musical Brain Created Human Nature*) even think we're born with the ability to learn music, just as we all have the skills to learn language. After all, children without any training frequently make up songs while they play. With the **evidence** of music's benefits **pouring in**, it's **no wonder** countries like Japan and Hungary make music study a part of their educational systems. People are recognizing that more than just a form of entertainment, music is also great for the brain.
 - 26 activate turn on; make active
 - 28 MRI (Magnetic Resonance Imaging) device showing an internal image of a patient
 - 30 composer person who writes music
 - 32 movement section of a work of classical music
 - 39 personalized specially made for one person
 - 41 procedure method; sequence
 - 45 attuned to sensitive towards; focused on
 - ⁴⁵ neuroscientist person who studies the brain and nervous system

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Reading	Compre	nension

Choose the best answer to each question.

..Main Idea

- 1. () What is the main idea of the reading?
 - A. Music therapy is effective in treating Alzheimer's patients.
 - B. The human brain is difficult to understand.
 - C. Besides being enjoyable, music has real-world applications.
 - D. It's best to learn music at a very young age.

.Detail

- 2. () In the Canadian study, which children had increased IQ scores?
 - A. Those who had always listened to music
 - B. Those who studied music
 - C. Those who already had high IQs
 - D. Those who could not play an instrument

.Vocabulary

- 3. () In line 28, what does "observed" mean?
 - A. heightened B. watched C. preserved
 - D. composed

.Analysis

- 4. () Why may classical music help our memories?
 - A. Listening to it uses brain processes which we also use to record memories.
 - B. Classical music is easier to play than other types of music.
 - C. This type of music activates the left side of our brain, but not the right side.
 - D. Brain activity is highest when we listen to music being played.
-) What can we infer about "brain music"?
 - A. It may not be effective at treating disease.
 - B. Listening to the music is only helpful to those who excel at math.
 - C. Each person's musical recording is different.
 - D. It is better at helping people relax than at helping them focus.

Short Answers

Write a full-sentence answer to each question.

- 1. How can reading musical notes make us better at math?
- 2. What parts of the brain store memories?
- 3. In "brain music," how are a person's brainwaves turned into music?

Vocabulary Building

A Choose the answer that is a synonym for the word or phrase in italics.

- 1. The police usually do not arrest a person without evidence that he or she committed a crime.
 - A. range
- B. activity
- C. proof
- 2. Airports can *track* planes all the way from take off to landing.
 - A. follow
- B. board
- C. compare
- 3. In that region of the country, the temperature often falls to 10 degrees below
 - A. citizen
- B. attention
- C. area
- 4. Considering all the money that the shop is losing, it's no wonder they're going out of business.
 - A. so unfortunate B. very recent
- C. not surprising

1 2124

- 5. Computers are great at helping people *organize* photos and other information.
 - A. relax

:---

B. sort

- C. concentrate
- Complete each sentence below with one of these words or phrases. Remember to use the correct word form.

	instrument	pour in	roie	unique	ability
1	. After the scientist we opportunities			emistry, job offer	rs and research
2	. The gallery sells		works	of art from Mex	ico.
3	. My their intended destir			o make sure shi _l	oments arrive at
4	. The	to sp	eak Chinese is	a great asset the	ese days.
5	. Orchestras include s viola.	tring		such as the vi	olin, cello, and

Circle the correct form of the words in parentheses.

- 1. (Anticipate/Anticipation) is high that the recession will soon end.
- 2. The person who (discovers/discovery) a new planet can also name it.
- 3. The procedure requires total (concentrate/concentration), so the operating room must be kept very quiet.
- 4. The watchmaker (expertly/expert) reassembled the antique clock.
- 5. The app can send you a (remind/reminder) of your important appointments.

Focus on Testing

Focus on Language

Word Parts

Study the word parts in this chart. Then read the pairs of sentences that follow. Decide if the second sentence is true or false.

Word Part	Meaning	Examples	
pre- before; in front of		front of preface; preview	
-form-	shape	informal; performance	
-ful	full of	colorful; cheerful	

- 1. The market survey's preliminary results show that people love the product. *It's the final set of results from the survey. (True / False)*
- 2. Mr. Lee is well known in the community for being truthful. *People think Mr. Lee is honest. (True / False)*
- 3. Sandra's political ideas don't conform to those of her classmates. *Sandra and her classmates have different political views. (True / False)*

Grammar

Adjective Clauses

We use adjective clauses to provide more information about a person, place, or thing. Depending on the type of noun being modified, we use the connector *who*, *whom*, *which*, *where*, or *that*.

person	who, whom, that	Ex: Lisa is the person who can help you.
place	where, that, which	Ex: This is the town <u>where</u> I was born.
thing	which, that	Ex: The form which you need is right here.

Combine the two sentences using an adjective clause.

- 1. Toronto is a great city. You can find some excellent restaurants there.
- 2. This is a delicious fruit. It only grows in these mountains.
- 3. I'd like to introduce you to my friend. She works as a research assistant.

Listening Listen to the conversation. Then answer these questions.

Track 4

1. () What is the woman's occupation?

(A) Graphic designer

(B) Shift manager

(C) Physical therapist

(D) Sales associate

2. () What is the woman concerned about?

(A) Her pay

(B) Her new colleague

(C) Her health

(D) Her workload

3. () What does the man suggest doing?

(A) Hiring another person

(B) Quitting the job

(C) Listening to soft music

(D) Talking to the boss

Reading Read this article. Then answer the questions below.

For people looking for a unique gift for that special someone, the experts at Custom Creations might have the answer. The firm employs a dozen professional songwriters who can write a personalized song just for you. For a reasonable fee, you can have an original piece of music dedicated to your husband, wife, parent, or child.

Ted Simmons, CEO of the firm, has been writing lyrics for more than 20 years. He started out writing songs for commercials, movies, and pop singers. Then, anticipating a rise in the customized gift market, he <u>founded</u> Custom Creations. According to Mr. Simmons, his firm has written more than 2,000 songs and has brought countless smiles to clients' faces.

1. () How many people work at Custom Creations?

(A) 1

(B) 12

(C) 20

(D) 2,000

2. () The underlined word "founded" is closest in meaning to
(A) located (B) purchased

(A) located(C) established

(D) imagined

3. () What did Ted Simmons do before founding the company?

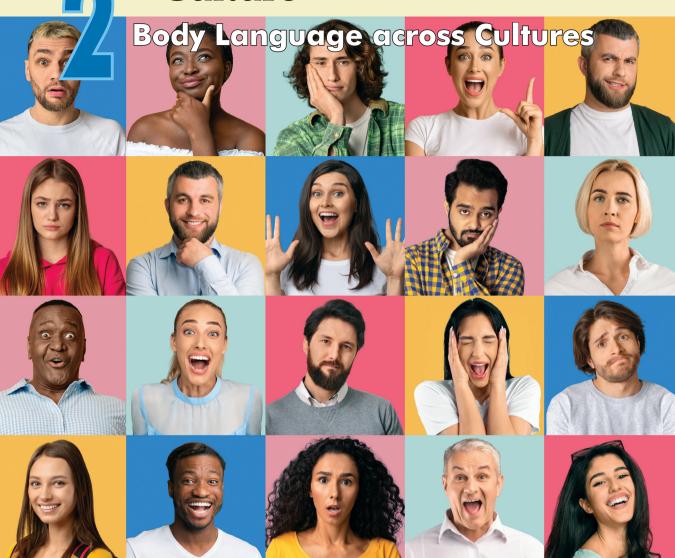
(A) He built movie sets.

(B) He was a professional songwriter.

(C) He worked at a customized gift shop.

(D) He sang in a band.

Culture



Our body language, such as our gestures and facial expressions, says a lot about us. It communicates our feelings even when we don't say a word. Just as languages differ from country to country, so does body language. Understanding those differences is important for cross-cultural communication.

Pre-reading Questions

Discuss these questions in pairs.

- 1. What are some common hand gestures? (ex: the "OK" sign) What do they mean?
- 2. Is your body language expressive? Is it easy for other people to tell what mood you're in even when you don't say anything?
- 3. Can you think of some examples of body language from other cultures that are different from your own?

Vocabulary Warm-up



Track 5

A Read and listen to this list of the unit's target vocabulary. Write the letter of the target word or phrase next to the correct definition.

	a. avoid	t. expressive	k. posture		
	b. be aware of	g. gesture	I. refer to		
	c. communicate	h. intensely	m. sequence		
	d. embarrassment	i. muscle	n. tend to		
	e. encourage	j. opposite	o. vary		
	1. completely differen	ent			
	2. extremely; passion	nately			
	3. likely to act a certain way or do a certain thing				
	4. to know about or	realize			
	5. to share informati	ion; interact			
	6. physical expression				
	7. way of standing; body position 8. shame				
	9. to stay away from	1			
	, ,				
	10. the way a series of	or trinigs is ordered			
B	Complete each sentence with a word or phrase from the above list. Remember to use the correct word form.				
	1. During the speech, the people who influenced		some of the		
	2. Fruit and vegetable procurrent supply, weather		depending on the		
	3. The university offering free tours.	people t	o visit the campus by		
	4. After playing baseball were sore.	for three hours, all of n	ny		
	5. Mr. Hoshizaki has suctell what kind of mood	` '	face that it's easy		