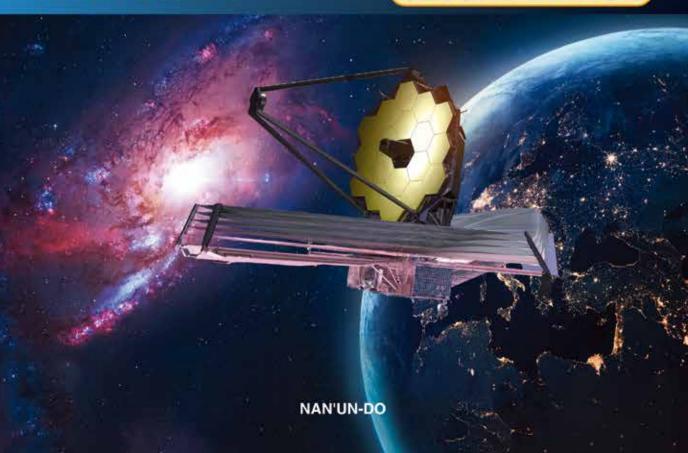


# Reading FUSION 1

Andrew E. Bennett

SECOND EDITION





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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

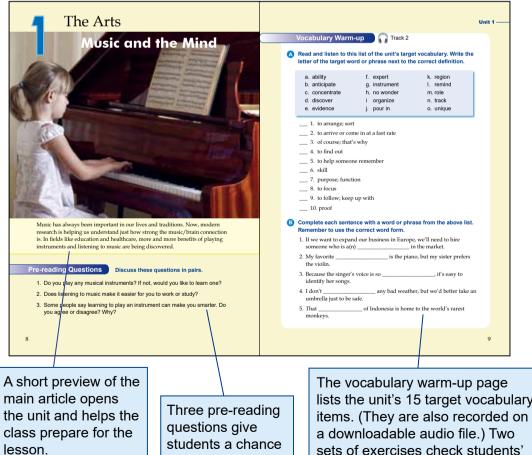
Introduction Introduction

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, thoughtprovoking 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.



to start thinking

about the topic.

lists the unit's 15 target vocabulary sets of exercises check students' understanding of the target items.

Each reading passage is 500 words long. The unit's 15 target vocabulary items are indicated in bold. The reading passage is recorded on a downloadable audio file.

Line numbers to the left of the reading passage provide easy reference.



Beneath the reading passage is a glossary with easy-to-read definitions. To the left of each glossary item is the line number where the word or phrase can be found in the article.

A caption beneath each image shows its relevance to the article.

Introduction Introduction

Following the passage are five reading comprehension questions, including main idea, detail, vocabulary, and analysis questions.

These vocabulary exercises check students' knowledge of the unit's 15 target vocabulary items. There are three types of exercises: synonym, fill in the blank, and word form.

n 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? The police usua..., committed a crime.

B. activity 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 C. compare 3. In that region of the country, the temperature often falls to 10 degrees below 2. ( ) In the Canadian study, which children had increased IQ scores? 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? why may classical music neep 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. What can we infer about "brain music"?
 A. It may not be effective at treating disease. 2. The gallery sells \_\_\_\_\_\_ works of art from Mexico. 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 tim 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. 5. Orchestras include string \_\_\_\_\_ such as the violin, cello, and 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? 3. The procedure requires total (concentrate/concentration), so the operating 4. The watchmaker (expertly/expert) reassembled the antique clock 3. In "brain music." how are a person's brainwaves turned into music? 5. The app can send you a (remind/reminder) of your important appointments

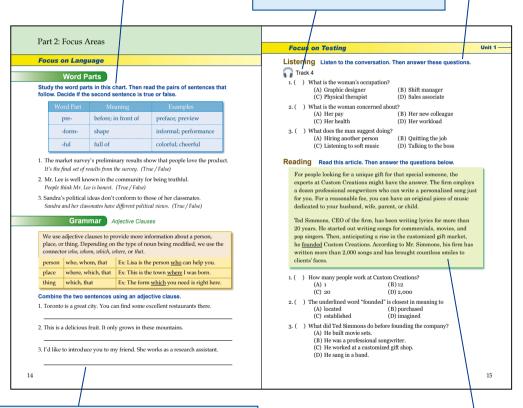
These three questions are also based on the reading passage. Answers should be one sentence long.

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



Track 2

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.

	<ul><li>a. ability</li><li>b. anticipate</li><li>c. concentrate</li><li>d. discover</li><li>e. evidence</li></ul>	<ul><li>f. expert</li><li>g. instrument</li><li>h. no wonder</li><li>i. organize</li><li>j. pour in</li></ul>	k. region l. remind m. role n. track o. unique		
	1. to arrange; sort2. to arrive or come3. of course; that's v4. to find out5. to help someone :6. skill7. purpose; function8. to focus9. to follow; keep up10. proof	vhy remember n			
B	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 umbrella just to be saf		ner, but we'd better take an		
	5. That monkeys.	_ of Indonesia is hom	e to the world's rarest		

 $_{9}$ 

## 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.

- dedicated to focused on; committed to
- process handle; deal with
- IQ "Intelligence Quotient" (widely used measure of intelligence)
- 13 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

- 25 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 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 **anticipated** what would come next while



A controlled, relaxed environment helps music listeners.

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
- 29 composer person who writes music
- 31 movement section of a work of classical music
- personalized specially made for one person
- 40 procedure method; sequence
- 44 attuned to sensitive towards; focused on
- 44 neuroscientist person who studies the brain and nervous system

December of	0	a la a sa a taran
Reading	Combr	ehension

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

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 p	oour in	role	unique	ability
1.	1. After the scientist won the Nobel Prize for chemistry, job offers and research opportunities				
2	. The gallery sells		works	of art from Mex	ico.
3.	. My their intended destin			o make sure ship	oments arrive at
4	. The	to sp	eak Chinese is	a great asset the	ese days.
5.	. Orchestras include st viola.	ring		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 Unit 1 -

#### **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		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, which, that	Ex: This is the town <u>where</u> I was born.
Ī	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

(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



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	f. 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 differ	ent			
	2. extremely; passio	nately			
	3. likely to act a cert	ain way or do a certair	thing		
	4. to know about or	realize			
	5. to share informat	ion; interact			
	6. physical expressi	on			
	7. way of standing; body position				
8. shame 9. to stay away from					
	10. the way a series	or timigs is ordered			
B	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 prices depending of current supply, weather, and crop forecasts.					
	3. The university offering free tours.	people :	to visit the campus by		
	4. After playing baseball were sore.	for three hours, all of 1	my		
	5. Mr. Hoshizaki has suc		face that it's easy to		