

# Vocabulary Seven

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## Instructions

Take a look at the focus words below. Think about what each word means and how it is used. Then answer the questions after each word.

**Remember:** You *don't* have to understand every word in the example sentences.

**Focus words:** increase, define, approach, function, on the other hand

### I. increase

1. At the crystalline melting point, there is an **increase** in volume of 25%, and the polymer becomes a weak translucent material.
2. There is also some indication of an **increase** in thyroid cancer among the heavily irradiated survivors.
3. This curve represents the effect of the **increase** of temperature from 105°C to 150°C.
4. The aim of both is to **increase** the surface hardness, or to reduce friction, or all of these.
5. For this path, we can **increase** the flow by as much as 6 without exceeding the capacity of any arc.
6. These computer systems help to **increase** the designer's inventive and creative abilities in solving engineering and scientific problems.

What do you think the word **increase** means? Use a dictionary to help.

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What part of speech is the word **increase** in examples 1-3? What part of speech is the word **increase** in examples 4-6?

Look at the sentences below. Do you think **increase** is being used correctly?

Circle your answer.

1. Most human activities tend to **increase** the rate of flow of water in ecosystems.

correct

incorrect

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2. There is an **increase** with volume of 15%.

correct

incorrect

3. We can **increase** about flow by changing the water pressure.

correct

incorrect

4. They exploit the **increase** in the hardness given by embedding foreign atoms in a thin surface layer.

correct

incorrect

5. For small systems, this **increase** in temperature is usually not a big problem.

correct

incorrect

6. One of the effects is that the more loosely packed atoms in the molten metal show an **increase** in volume.

correct

incorrect

Write two sentences (one for each part of speech) that use the word **increase**. Use the examples above to guide you.

1. \_\_\_\_\_

\_\_\_\_\_

2. \_\_\_\_\_

\_\_\_\_\_

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### II. define

1. **Define** the member function sort following the model of Display 20.2.
2. To understand those meanings, we need first to **define** several new terms.
3. Our next goal in this section is to **define** a fundamental concept of physics known as flux.
4. We shall now **define** some terms to understand the results of the tension test.
5. When we **define** a class, we **define** not only data, but also the operations allowed on those data.
6. **Define** the term desalination.

What do you think the word **define** means? Use a dictionary to help.

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Look at the sentences below. Do you think **define** is being used correctly?

Circle your answer.

1. **Define** about the word polymer.  
correct      incorrect
2. You will need to **define** the first variable before you can solve the equation.  
correct      incorrect
3. When we **define** on this function, it allows us to perform the operation.  
correct      incorrect
4. Our approach is to **define** the Laplace transformation.  
correct      incorrect
5. The copy constructor is not inherited, but if you do not **define** a copy constructor in a derived class, C++ will automatically generate a copy constructor for you.  
correct      incorrect

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6. To enforce the required uniqueness of the foreign key value, we **define** the foreign key column as unique.

correct                  incorrect

Write a sentence that uses the word **define**. Use the examples above to guide you.

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### III. approach

1. Another **approach** is to keep the list in alphabetical order.
2. A more efficient **approach** is to use codewords of variable lengths.
3. This **approach** provides a fundamental basis for the study of fluid mechanics.
4. This **approach** is similar to the concept of fields discussed earlier in this chapter.
5. Fortunately, there is a much simpler **approach** to this problem that will eliminate the difficulties described above.
6. Newton needed a new mathematical **approach** to handle his investigations, and so he invented calculus.
7. We use the first **approach** in Section 24-2 and the second in Section 24-9.

What do you think the word **approach** means? Use a dictionary to help.

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Look at the sentences below. Do you think **approach** is being used correctly?

Circle your answer.

1. A better **approach** is to organize your work before you begin.

correct                  incorrect

2. The third **approach** to this problem is shown in Figure 4.12 on page 217.

correct                  incorrect

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3. An **approach** with to solve this equation is shown in the diagram below.

correct

incorrect

4. In this chapter we extend this **approach** in several different ways.

correct

incorrect

5. The general **approach** for is to look first at S, then at the vertices adjacent to S.

correct

incorrect

6. The reader should be aware of this **approach** to complex flow problems.

correct

incorrect

Write a sentence that uses the word **approach**. Use the examples above to guide you.

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### IV. function

1. We next design a **function** to insert a node at a specified place in a linked list.
2. If you want a **function** to change the value of a variable, then you must use a call-by-reference parameter.
3. This step can be difficult since many parts are designed to include multiple **functions**.
4. This voltage is a linear **function** of the pressure and could be digitized for storage or processing on a computer.
5. The primary **function** is that of storing elastic energy.
6. Thus, a **function** that returns a value may do any other action as well as return a value.
7. The **function** may call itself, and that recursive call may call the **function** again.

What do you think the word **function** means? Use a dictionary to help.

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Look at the sentences below. Do you think **function** is being used correctly?

Circle your answer.

1. The **function** is important and the program cannot work without it.

correct

incorrect

2. The main **function** is to coordinate the integers in the Table 1 with the customer names in Table 2.

correct

incorrect

3. You design **function** for inserting this information.

correct

incorrect

4. This result is a linear **function** at the temperature of the material.

correct

incorrect

5. The computer writes a second copy of the **function**.

correct

incorrect

6. You are telling the compiler, "I do not know how this **function** is implemented.

correct

incorrect

Write a sentence that uses the word **function**. Use the examples above to guide you.

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### V. on the other hand

1. Polystyrene (PS), **on the other hand**, burns rapidly, has a strong gas odor, and produces tremendous amounts of soot.
2. It is possible for our lungs to get oxygen from the atmosphere easily. Nitrogen, **on the other hand**, is not readily available.
3. Plants make carbohydrates through photosynthesis. Animals, **on the other hand**, obtain carbohydrates by eating plants or other animals.
4. Gas is mostly empty space, so the molecules are free to move about the entire volume of their container. Molecules in a liquid, **on the other hand**, are packed closely together but can still move past one another.
5. This first solution is easy to use; **on the other hand**, the second solution is much more difficult to work with in this equation.
6. These wavelengths of light are easily visible to the human; **on the other hand**, infra-red wavelengths are not normally visible to the human eye.

What do you think **on the other hand** means? Use a dictionary to help.

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Look at the sentences below. Do you think **on the other hand** is being used correctly?

Circle your answer.

1. It is a good idea; **on the other hand**, it will work well, too.

correct

incorrect

2. The temperature will decrease; **on the other hand**, the pressure inside the vessel will increase.

correct

incorrect

3. Fortunately, in this case one can be found by a little bit of trial and error. **On the other hand**, the graph with five vertices in Figure 4.24(b) does not have a Hamiltonian cycle.

correct

incorrect

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4. A few plastics are biodegradable. **On the other hand,** most plastics don't biodegrade.

correct

incorrect

5. It is easy to use and understand. **On the other hand,** this process is helpful.

correct

incorrect

6. **On the other hand,** splay trees are much simpler to program than AVL trees, since there are fewer cases to consider and no balance information.

correct

incorrect

Write a sentence that uses on the other hand. Use the examples above to guide you.

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**VI.** Choose **three** of the focus words and use them in a short paragraph.

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**VII.** Look at the example sentences. What words come before and after each of the focus words? Put each word in a suitable category.

before the focus word	on the other hand	increase	increase	approach	function	define
noun						
verb						
preposition						
article					<b>the</b>	
other word types						

after the focus word	on the other hand	increase	increase	approach	function	define
noun						
verb						
preposition					<b>is</b>	
other word types						

**Are there any patterns that you notice?** Click [here](#) to see more examples of the focus words in use.

**What does the pattern tell you about how the focus word is used?**

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**VIII.** Do the focus words have any other parts of speech? Complete the table. Not all focus words have all parts of speech that are shown in the table.

	increase	increase	approach	define
noun	<b>increase</b>			
verb		<b>increase</b>		
adjective				
adverb				

How do we classify *on the other hand*?