



# **Microchips**

Reading to Writing Summary

**EXAMPLE** 

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# <u>Student</u>

#### Two types of lesson

**Lesson#1**: [Easy] \*\*\*\*\* [B2/C1]

- 1. Predict the content of the text. Write down key terms & ideas.
- 2. Read the text & check words & meanings with a dictionary.
- 3. Identify the key points and supporting details and complete the outline.
- 4. Write a one-paragraph summary of 200-250 words.
- 5. Check key points with the completed outline & model answer (try to achieve 4 key points and 4 supporting points).
- 6. Answer the critical thinking questions & check possible answers.

**Lesson #2**: [Hard] \*\*\*\*\* [C1]

- 1. Read the text no dictionary.
- 2. Identify the key points and supporting details and complete the outline.
- 3. Write a one-paragraph summary of 200-250 words.
- 4. Check key points with the completed outline & model answer (try to achieve 4 key points and 4 supporting points).
- 5. Answer the critical thinking questions & check possible answers.

# **Teacher**

#### Two types of lesson

**Lesson#1**: [easy] \*\*\*\*\* [B2/C1]

- 1. Distribute the text a week /day before the test. Students read, check vocabulary & meanings.
- 2. Test day: distribute a **new copy of text** and the **summary question.**
- 3. Set 1 hour to read the text, take notes and write a one-paragraph summary of 200-250 words.
- 4. Feedback<sup>1</sup>: take in and mark [use our correction code\*].
- 5. Feedback<sup>2</sup>: distribute **completed outline** & **model answer**. Students compare with their own work.
- 6. Summary marking: should contain at least 4 main ideas with support see summary key points.
- 7. Extra: critical thinking questions / group discussion (30 minutes).

Lesson #2: [hard] \*\*\*\*\* [C1]

- 1. Set 1 hour to read the **text** and write a one-paragraph summary of 200-250 words.
- 3. Feedback<sup>1</sup>: take in and mark [use our correction code\*].
- 4. Feedback<sup>2</sup>: distribute **completed outline** & **model answer.** Students compare with their own work.
- 5. Summary marking: should contain at least 4 main ideas with support see summary key points.
- 6. Extra: critical thinking questions / group discussion (30 minutes).

Correction code\*: www.academic-englishuk/error-correction





# The microchip shortage **EXAMPLE**

By C Wilson (2022)

, to cars looks set to continue for a number of years, as demand for
these low-cost but highly-efficient . Microchip
production is known for its fluctuations, as can be seen over the last three years wherein
but then two years later grew from 6.5% to
26%, and with sales toppling almost one billion in April 2021, yet this growing scarcity first seen in the
electronics industry, has now spread to the
automotive considerable consequences (Gooding, 2021; Shein,
2021).
The microchip shortage can be traced back to the beginning of 2020, when the Covid-19 pandemic hit.
Shein (2021) argues that the increase and home-schooling
meant chip manufacturers shifted their focus from cars. Now that these restrictions have
our incessant need for cutting-edge technology once again
increased, but also prices of items such as computer
and 8% respectively (The Week, 2021). Although the demand for cars has returned to a high level,
production worth of lost production due to shutdowns of Ford and
General Motors plants across North America and Jaguar Land Rover's poor sales over the last two years
(Gooding, 2021). As, many car companies such as Nissan, Renault
and Ram Tracks have had to omit certain elements from, such as
navigation systems and intelligent rear view mirrors for blind spots (Shead, 2021). What has also
become apparent over these last two years is the manufacturers. Although
production and 70% of memory chip output now happens
in Asia because costs are lower, specifically at Samsung
Manufacturing Company (TSMC), which also suffered at the hands of the country's worst drought in
many manufacturers with (Shein, 2021; The Week, 2021; Gooding, 2021). Therefore, it could be said that although global health
crises and natural disasters cannot be foreseen,
manufacturing diversification.
manufacturing diversification.
In order to prevent the current crisis from deepening, Gooding (2021) reveals that in Asia, both
Samsung and TSMC plans , whereas in Europe, the European
Commission aims to double its global chip production by 2030 with up to €30bn as
manufacturers (Shead, 2021). With regard to North America, Shein
(2021) reports that the new \$250bn Innovation the sector,
in and Texas Instruments who have vowed to build a total of eight
new fabrication facilities. However, not only are the fabrication plants extremely complex and
expensive to construct, it can
the silicon required into useable chips (The Week, 2021). Moreover, as reported by Shein (2021),
microchip supply chains could be more transparent and diverse, with a focus on more regional
industry a
just-in-time approach and more towards just-in-case, and by using the analytical and statistical data
available, able to 'match
and manual processes'. Thus, although plenty of investment is being put forward, what is also needed
major changes are made to supply
chains.



As it is estimated that the microchip shortage , and as a result,
product delays could continue for even longer, the optimal solution would be for semiconductor
in supply and demand. This can be achieved through avoiding a
dependency on Samsung and TMSC and making better use of the supply and demand data available
in order to be . As
how much we need to have the latest gaming console or OLEG television, so that the
time.
Reference list
Gooding, M., (2021). Here's what we know about the global chip shortage [online]. Available at:
<u>https://techmonitor.ai/technology/chip-shortage-tsmc-samsung-us-uk-taiwan-automotive</u> [Viewed
02.03.2022].
Shead, S., (2021). <i>The global</i> [online]. Available at:
https://www.cnbc.com/2021/05/07/chip-shortage-is-starting-to-have-major-real-world-consequences.html
[Viewed 20.03.2022].
Shain F (2021) Clahal ship shartagas Franching you need to know [anline] Available at
Shein, E., (2021). Global chip shortage: Everything you need to know [online]. Available at:
[Viewed 20.03.2022].
The Week, (2021). 'There is no end in sight': everything to know about the great microchip shortage [online].
Available at: [Viewed 20.03.2022].



## **Summary: Key Points**

Take notes on the key points of the text.

1.Main idea:
Support:
2. Main idea:
Support:
3. Main idea:
Support:
4. Main idea:
Support:



## **Summary: Key Points (ANSWERS)**

Take notes on the key points of the text.

1.Main idea: The unpredictability of the microchip industry
Support:
Miniscule, (MC). Low-cost eff. semiconductors.
Shortage = a number of years.
• Microchip in 2018 = 2 years later = 6.5% to 26%.
• 1 bn sales [April 2021].
• Scarcity = (Gooding, 2021; Shein, 2021).
2. Main idea: I The rationale for the issues of scarcity
Support:
• MC shortage = (2020).
<ul> <li>demand = working remotely &amp; home-schooling (Shein, 2021)</li> </ul>
<ul> <li>X restrictions = 1 demand for cars &amp; technology.</li> </ul>
Car comp     Shead, 2021).
<ul> <li>World's reliance = 2 manufacturers. Samsung (S. Korea) &amp; Taiwan Semiconductor</li> </ul>
(TSMC).
<ul> <li>&gt; 80% of production &amp; 70% all MCs = Asia.</li> </ul>
• (Shein, 2021; The Week, 2021; Gooding, 2021).
3. Main idea: Focused global solutions
Support:
Samsung & TSMC plans (Gooding, 2021)
<ul> <li>EU Comm. to double glob. chip prod. by 2030 = €30bn (Shead, 2021).</li> </ul>
New US     Bill (Shein, 2021).
<ul> <li>Intel Corp. and Texas Instr. = build 8 new fabri. facilities.</li> </ul>
Fabri. plants = to construct.
<ul> <li>MCs = elaborate = 4 months transform silicon = useable chips (The Week, 2021).</li> </ul>
Supply chains = reg. sourcing, delivery strats
(automotive industry - just-in-time approach = just-in-case), and
stat data = ' reduce errors and manual processes'
(Shein, 2021).
Time = major
4. Main idea: Improvements in supply and demand
Support:
MC shortage = many years.
Op. sol. = of supply & demand.
Reduce depend. on Samsung and TMSC.
Impr. of pot. declines and peaks.
<ul> <li>Consumers = consider not buying latest gadget.</li> </ul>
Industry





### **Summary**

Task: Write a 200-250 word summary on the key features of the text.			
Word Count:			



# **Summary: Microchips**

#### Sample

According to Wilson (2022), the world is expe	riencing a	to as
000000000000000000000000000000000000000	production is a volatile industry wi	ith fluctuations in supply
and demand but recently there has been	500000000000000000000000000000000000000	of chips in over
170 electronic industries (Gooding, 2021; Shei	n, 2021). There are two main reaso	ons for the shortage. The
first is	which led to	300000000000000000000000000000000000000
that people could work remotely and offer ho	me education to their children (Sh	ein, 2021). The second is
the world's reliance on two main	500000000000000000000000000000000000000	microchip output:
Samsung and Taiwan Semiconductor Manufacturing Company (TSMC). There are a range of global		
000000000000000000000000000000000000000	microchip shortage which c	onsist of the two main
manufacturers investing \$500bn in additional capacity		
chip	markets. In addition, Shei	in (2021) calls for supply
chains to be more diverse and transparent, $\mbox{\Large  }$	000000000000000000000000000000000000000	statistical
data techniques to avoid potential declines a	nd peaks. Overall, Wilson (2022) I	nighlights that change in
supply chains	but this could tal	ke a couple of years.
225 words		



### **Critical Thinking Questions**

i) What's the stance of the author? What is the evidence for this?	
	[2 points]
	[2 points]
ii) Is this a credible article? Yes /no – why	
	[2 points]
	[= poto]
iii) Highlight three ideas in the text you would use for an essay on: 'How has	000000000000
been affected by done?'	
	[4 points]
	[ · points]
iv) Highlight two areas in the text that you question, disagree with or lack evidence.	
	[2 points]



## **Critical Thinking Questions**

i) What's the stance of the author? What is the evidence for this?

The writer holds a generally neutral stance offering ker are places where the author's stance shows. In P2, the manufacturing diversification.	y facts of the microchip industry. However, there	
P2. 'Therefore, it could be said that the same cannot be said for the lack of	cannot be foreseen,	
In P3, the author states it's necessary for more time.		
P3. Thus, enough unless major	what is also needed is time, and this will not be , chains.	
In P4, the author reiterates their stance for less dependency on Asia and focusing on supply and demand. Also, they question consumer buying patterns.		
P4. This can be achieved	and making better use of the	
supply and demand data As consumers, it is also perhaps worth considering how		
can reco	ver in time. [2 points]	
ii) Is this a credible article? Yes /no – why?		
Yes, to a certain extent but credibility is debatable. The mainly media based / news websites. but who are the authors? What authority do they have the articles which	and informative	
	[2 points]	
iii) Highlight three ideas in the text you would use for a been affected by done?	, .	
P1: Growing scarcity in the electronics industry, = 170 P2: Increase electronics =	= MC manufacturers shifted	
their focus from cars.  P2: Demand for cars = high level,  Motors (North America) & Jaguar Land Rover's poor sa	, of Ford and General	
P2: Modern =1,000s chips = omit certain elements e.g. nav. systems & intelligent rear view mirrors (Shead, 2021).		
P3: Shein (2021),[] analytical and statistical data, all parts of the supply chwith	, just-in-case, and by using the	
These are the main ideas focused on cars but any solu-	tions regarding the microchip sector are valid	
too.	[4 points]	





iv) Highlight two areas in the text that you question, disagree with or lack evidence.

P1: Why is microchip production known for its fluctuations	? What causes the fluctuations of the
market?	
P1: Yet this growing scarcity first seen in the electronics in	dustry, has now spread to almost 170
industries. quite	low
P2: The microchip shortage can be traced back to the beginning	of 2020
hit. Was it just this?	by 26% so was production a variable
in the shortage?	
P2: Although the	has not, as can be seen in the \$47 billion
worth of lost production due to shutdowns of Ford and Gene	ral Motors plants across North America
and Jaguar . Wha	t has
they going into bankruptcy? What is their strategy to this lost p	production?
P2: (TSMC), which also	over fifty years in 2021, leaving
many manufacturers with insufficient quantities of water need	ed to make chips. Is this the main reason
for microchip shortage?	What are TSMC doing about
?	
P3: Both Samsung and TSMC plan to invest \$451bn and \$100m	respectively in additional capacity.
What will they invest in?	investment be spent? Why is
Samsung?	
P3: Fabrication plants are extremely complex and expensive to	o construct. How much does it cost and
how	
P3: Microchip supply chains could be more transparent.	What does this mean? What type of
transparency?	
P3: What is also needed is time. How much time is needed?	300000000000000000000000000000000000000
P4: This can be achieved through avoiding a dependency on	
These two dominate	, difficult.
[Any 2 of these – obviously subjective so accept any credible st	tudent answer too]. [2 points]