## The Past, Present and Future of Laser Technology |

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Check the important words and phrases used in the session and what they mean. You can also use the read-aloud voice on the website to check your pronunciation.

<b>Words &amp; Phrases</b>	訳
1. optical fiber	光ファイバー
2. phenomenon	現象
3. entrepreneur	起業家
4. entrepreneurship	起業家であること、起業家精神
5. light bulb	電球
🗆 6. phase	(光波・電波などの)位相、フェーズ
□ 7. incoherent	(光などが)非干渉性の
8. coherent	(光などが)干渉性の
9. mouthful	発音しにくくて長たらしい語(句)
10. commercialize	~を商品化する
11. wavelength	波長
□ 12. telecommunication	(電話・テレビ等による)遠距離通信(略:telecom)
🗌 13. encode	~を符号化して発信する
🗌 14. modulate	~を変調する
🗆 15. diameter	直径
☐ 16. silicon dioxide	二酸化ケイ素
🗌 17. pulse	波動
🗌 18. decimal place	小数位
19. mode-locking	モード同期
🗆 20. amplify	~を増幅する

# Let's join the session!

The following questions are based on the contents of the session. Watch the session and answer each question.

[1] Explain the properties of laser light.

[2] Where can we find lasers in our everyday life?

[4] Explain the history of innovation in pulsed laser technology.

[5] Explain how optical fiber is used in our daily life.

Wrap up the session!

# [1] The following is a summary of the session. Write down the appropriate words in the blanks in the passage.

Laser is a ( ) ( ). ( ) ( ) natural light, laser has the properties of being a ( ) ( ), traveling in ( ), and being synchronized in the same ) ( ). The first laser was invented in 1960. Since then, ( ) ( ) of lasers have been invented and used ( ) our daily life. We can see laser ( ) in classrooms ( and in ) readers in supermarkets. ) ( ( ) ( ) lasers are very important for our Internet society ( ) ( ) laser operates in a very short time today. An ( ), so it can provide extremely high peak period known as a ( ). Pulsed lasers in the past were very expensive and very large, ( but now they have become ( ) and more ), ( ). Therefore, they are now used in many ( ( ).

#### [2] Write down what you learned in today's session.