

# Reflections ~ STEAM Education from Queensland



**Warm up!**

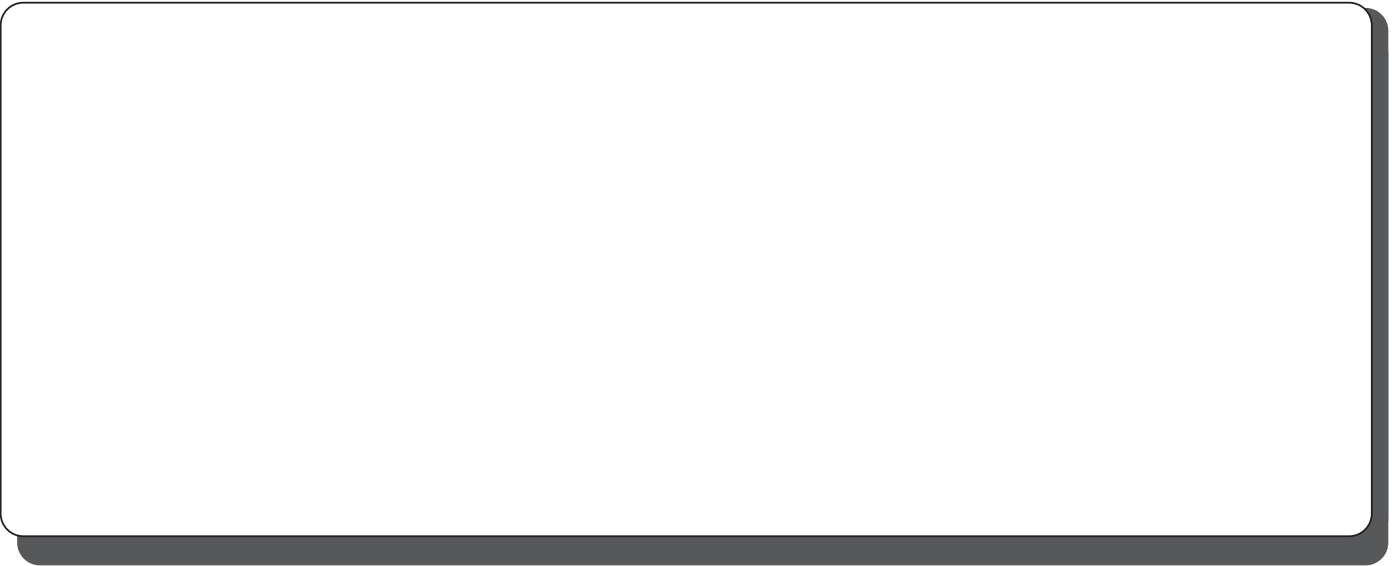


Check the important words and phrases used in the session and what they mean. You can also use the read-aloud voice on the website to check your pronunciation.

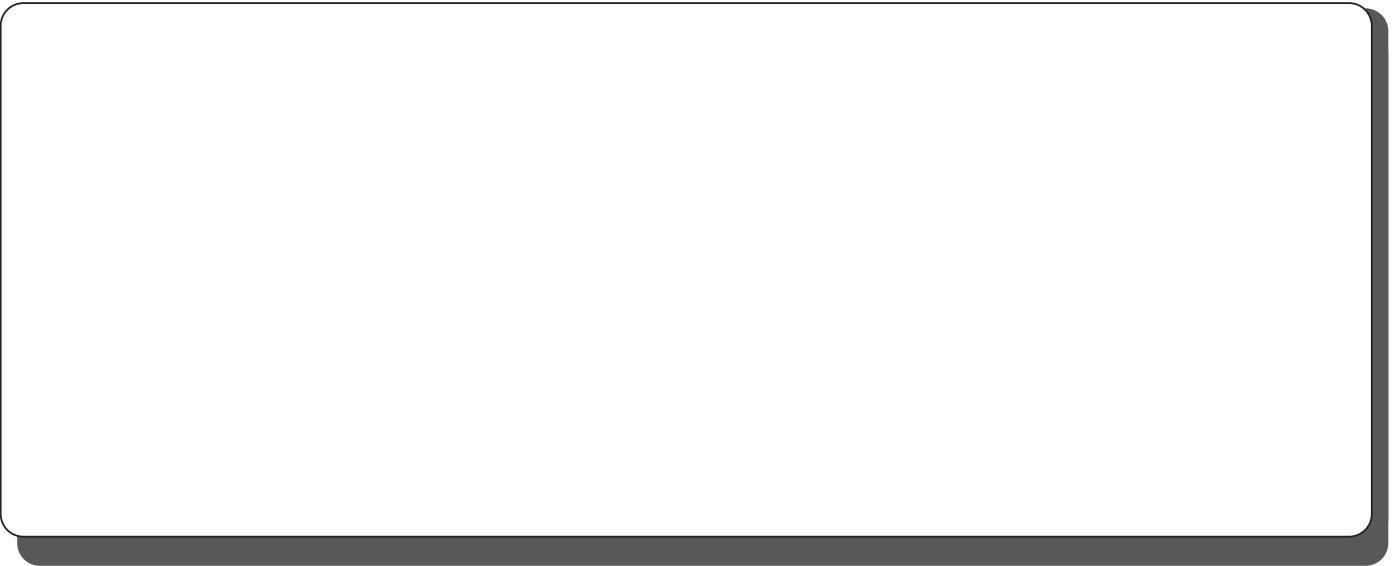
<input checked="" type="checkbox"/> <b>Words &amp; Phrases</b>	<b>訳</b>
<input type="checkbox"/> 1. radio wave	電波
<input type="checkbox"/> 2. microwave	マイクロ波
<input type="checkbox"/> 3. infrared radiation	赤外線
<input type="checkbox"/> 4. visible light	可視光線
<input type="checkbox"/> 5. ultraviolet	紫外線
<input type="checkbox"/> 6. x-ray	エックス線
<input type="checkbox"/> 7. gamma ray	ガンマ線
<input type="checkbox"/> 8. light bulb	電球
<input type="checkbox"/> 9. atom	原子
<input type="checkbox"/> 10. excite	～をエネルギーの高い状態にする、励起する
<input type="checkbox"/> 11. release	～を放出する
<input type="checkbox"/> 12. electron	電子
<input type="checkbox"/> 13. demonstration	実演、デモンストレーション
<input type="checkbox"/> 14. bounce off	～に反射する
<input type="checkbox"/> 15. reflection	反射
<input type="checkbox"/> 16. absorb	～を吸収する
<input type="checkbox"/> 17. laser	レーザー
<input type="checkbox"/> 18. dense	高密度の
<input type="checkbox"/> 19. lap	1 周
<input type="checkbox"/> 20. periscope	潜望鏡、ヘリスコープ



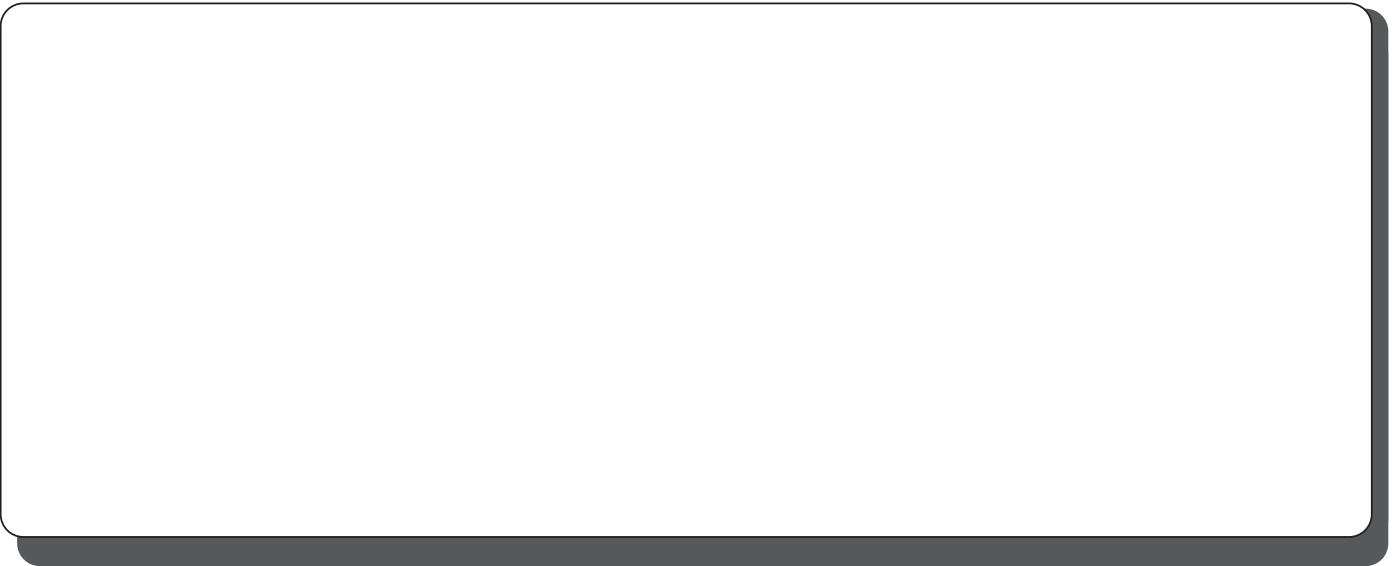
**[ 3 ] Explain how light behaves.**



**[ 4 ] Explain how light is used to make a telephone call from Japan to Australia.**

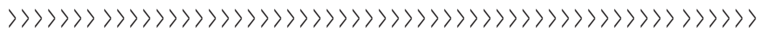


**[ 5 ] Explain how we can see the surface of the sea with a periscope.**





**Wrap up the session!**



[ 1 ] The following is a summary of the session. Write down the appropriate words in the blanks in the passage. You may use the same words for several blanks.

Light is energy that travels ( ) ( ) ( ) at 300,000 km ( ) ( ). This means it travels seven and a half times around the earth every second. Light comes from ( ) that ( ) ( ). When an atom is excited and ( ) going around the atomic nucleus give off energy, light is produced. Light ( ) ( ) a ( ) and ( ) ( ), and can go through a cable ( ) ( ) the surface of the cable. ( ) ( ), a kind of light, is used in telephone calls that utilize the nature of light. ( ) ( ) made by a phone reflects at a telephone tower to an ( ) cable and travels through the cable underseas, ( ) ( ) the surface of the cable. Light travels very fast, so we can ( ) ( ) each other on the phone in real time. The reflection of light is also used in periscopes.

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

