

### **Suggested Answers**

#### Discussion Time:

- The exhibition title “Imaginarium: A Voyage of Big Ideas” is a word blend of “imagine” from the noun “imagination” and the suffix “-arium” which denotes a location, abounding in or connected with something.
- The image of a boy and girl pair sitting on a moonship pointing at 5 stars is inspired by the Singapore flag, a symbol of a young nation on the rise with the capacity to dream big and think large. Through this exhibition, we hope students will propel their gaze ahead, where they can set sail on their imagination to explore other realms full of new possibilities.

There are 3 different versions (including the one shown) throughout the exhibition.

1. Free response.
2. Free response.
3. Free response.
4. Free response.
5. Free response.
6. “The energy you are generating came from the Sun.”
7. The Sun.
8. Free response. Fun fact: electromagnetic energy from the Sun comes to Earth in the form of radiation. The Sun emits visible light, infrared rays and some ultraviolet light. This warms the Earth and that is the driving force behind our weather and climate.
9. Stars emit light through electromagnetic radiation, similar to the Sun, since the Sun is a star. As stars emit light with different wavelengths, they have different colours. They do not just emit one wavelength of electromagnetic radiation, but a range of wavelengths.
10. KINETIC ENERGY
11. Stored Potential Energy → Kinetic Energy → Light Energy  
Stored Potential Energy → Kinetic Energy → Sound Energy

12. a) A set of stars in the night sky. The artist specially chose stars appearing above the Singapore night sky on 14 Mar 2015, the opening date of this exhibition.  
b) A stereo set.  
c) A turn on/off drum set that emits 9 different types of sounds.  
d) A sun  
e) Words that spell out "The energy you are generating came from the sun"
13. Free response. Examples could be wind, water, solar, nuclear energy.
14. "Greenroom II: Interstellar Overdrive"
15. A greenroom is typically a waiting room or a lounge for performers to use when they are offstage. This is a room where performers may rest or receive visitors.
16. The artist wanted this area to be a room where performers get to warm up before going onstage.
17.  $968 \text{ Tuesdays} \times 7 \text{ days a week} = 6776 \text{ days}$
18. The stars will stop shining if we stop dreaming because we are made of stars and we are the ones who make them shine.
19. Free response.
20. Free response.
21. Free response.
22. Gears, a dog, a prawn, fan blade, paint tin cover, etc. Ultraviolet light in the box makes objects glow in the dark and change colour. The colours of light that the human eye can see range from red to blue in colour. The light that has frequency just lower than red light is called infrared and light that has frequency higher than blue light is known as ultraviolet light. Some materials have a special property that absorb ultraviolet light and then re-emit the light at lower frequencies that our eyes can see. Thus they seem to glow since they are translating the invisible ultraviolet light into colours that the human eye can see.
23. Free response.
24. Yes, I can hear eggs cracking. *Accept other suitable answers.*
25. City, Woods, River, Sky
26. BOTANIST; HYDROLOGIST; METEOROLOGIST; ANTHROPOLOGIST

27. Candy, Pepero (pretzel stick), sweets, biscuits, etc.
28. Free response.
29. Free response.
30. A real tree in Singapore usually has more leaves. This artwork consists of a tree segmented into many parts and surrounded by glass containers. *Accept any suitable answers.*
31. Transparent; light; heat; evaporation; condensation; cycle
32. Free response.
33. Free response.