

# MEPS Science Challenge 2021

Poster - Picture Story Book - Working Model - Invention - Games (Board/Card)

Computer Program/Game - Science Photography - Science Video



Participation is voluntary - Grade P-6 - Completed as homework - Presented at school during Week 8

Select any scientific area that you are interested in and present your understanding in one of the following ways.

POSTER	PICTURE STORY BOOK	WORKING MODEL	INVENTION
<ul style="list-style-type: none"> <li>• Give a clear explanation of the scientific or technical aspects involved</li> <li>• Include at least 3 hand drawn and labelled diagrams that support your explanation</li> </ul>	<ul style="list-style-type: none"> <li>• The creative writing and pictures must be written as a fictional story (detective, horror, drama, adventure etc)</li> <li>• You must include factual scientific information in your story</li> </ul>	<ul style="list-style-type: none"> <li>• Scaled model is a working model that simulates the operation of, and the scientific principles behind, an existing technology</li> <li>• Information models are working models that either demonstrate a scientific principle or concept, or simulate a scientific technique</li> </ul>	<ul style="list-style-type: none"> <li>• Design a device to solve a real world problem</li> <li>• Apply your understanding of science to make a working invention that has a practical application</li> <li>• Your invention may be a new device, method or process that has not existed before or you may choose to look at an existing device and invent a solution that works better</li> </ul>
BOARD GAME – CARD GAME	COMPUTER PROGRAM/GAME	PHOTOGRAPHY	VIDEO
<ul style="list-style-type: none"> <li>• Needs to present a scientific idea</li> <li>• Shows evidence that research was used to create the game</li> <li>• Is educational and involves players completing tasks, answering questions and making decisions</li> </ul>	<ul style="list-style-type: none"> <li>• Create a computer program to communicate your chosen science topic</li> <li>• It can be a game, simulation or both but must be interactive and not just a presentation of information</li> </ul>	<ul style="list-style-type: none"> <li>• Submit photographs which record some scientific event or illustrate some scientific phenomenon</li> <li>• Submit between three to six photographs which are linked by a common theme</li> </ul>	<ul style="list-style-type: none"> <li>• The video should focus on areas of science where motion, colour, and sound are important</li> <li>• Some useful techniques might be; editing segments of your video, adding music, time lapse sequences, superimposed graphics or lettering, zooming, fading out and audio level adjustment</li> </ul>

Fill in the entry form by clicking on this link: <https://forms.gle/nnFG54kkF41pwA2e6>

# BIOLOGICAL



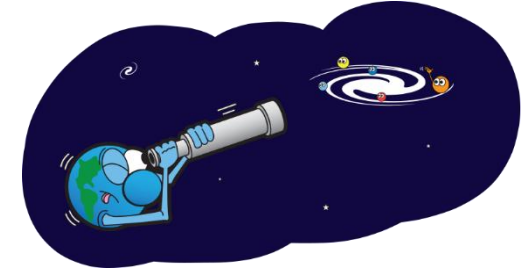
- Living and non-living
- Life cycles
- Human body

# CHEMICAL



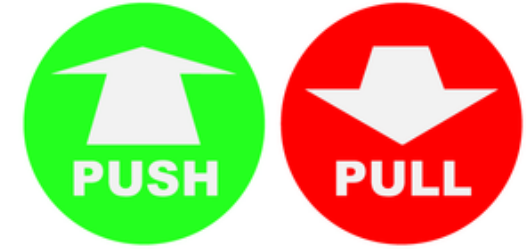
- Solid, liquid, gas
- Natural and processed materials
- Properties and changes
- Experiments

# EARTH & SPACE



- Sun, Moon, Earth
- Planets
- How does the Earth's surface change over time?
- Natural disasters

# PHYSICAL



- Push and pull
- Heat and temperature
- Forces
- Light and sound