

JUNKTOFUNK

BUILD A

MOON BASE

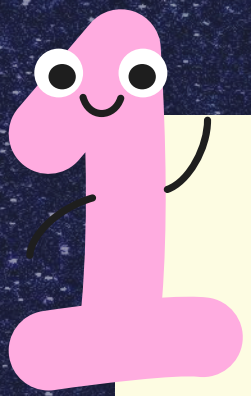
SPACE Fest

DEAR LUNAR ARCHITECTS,

You and your team are invited to design a **moon base** for scientist to live and work. Can you design and build a moon base model with **living and lab area, food supply area, and power plant** that addresses:

1. Living environment (1/6 gravity, $\pm 170^{\circ}\text{C}$ swings, vacuum)
2. Closed-loop ecosystem (oxygen/water/food cycles)
3. Sustainable energy supply (electricity, solar energy, biomass...)?

Please use **Recyclable Materials** to make your model.



RESEARCH & THINK

- How is the living environment in the moon?
- Why is it challenging to live in the moon?
- How can plants grow in moon without air?
- How to generate electricity?



DISCUSS & DESIGN

- How does the moon base look like?
- Where do you place three areas? Are they connected to each other?
- What will the electricity circuit look like in our moon base? Is it for lab, warning light, or... ?
- What fun things we can do in moon base?



MAKE A MODEL

- Show your ideas in a Moon Base Model!
- Use recyclable materials
- Work in team and help each other
- Explain your ideas by text, QR code or other format... Be creative!



SUBMIT!

Post us your amazing models.

Your teacher can post it or drop it to :
Access & Outreach Office, TU Dublin,
Room RDI05, Rathdown House,
Grangegorman Lower, Dublin 7 before
Friday the 30th of MAY 2025.

Mark it **Moon Base Art Competition** for the attention of Zhuoqun Zang.

OLLSCOIL TEICNEOLAÍOCHTA
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