

Design & Technology Competition



Imagine and design an outdoor learning centre of the future



SecEd

TG escapes bespoke eco buildings
to inspire

1st Prize

The winning design will be turned into a fully rendered architectural design by our architects Metropolis.



- **Deadline Monday 22 June**
- **Upload to TEAMS**
- **Designs can be hand draw, CAD or a mixture of both.**
- **Don't forget to annotate your ideas.**





bespoke eco buildings
to inspire

TG escapes



COMPETITION

for schools in association with



KS3 & KS4





SecEd



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bespoke eco buildings
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TG escapes









DESIGN
COMPETITION

for schools in association with

SecEd

KS3 & KS4

For students during lockdown,
TG Escapes, supported by SecEd,
introduce a free to enter
design competition.

-  Open for all schools in the UK to enter one design per key stage, per school.
-  Imagine and draw the 'Outdoor Learning Centre of the Future.'
-  Each design must include an eco building and outdoor space.
-  The winning design will be turned into a fully rendered architectural visualisation.
-  2 runners up will receive a Tree Planting Pack.
-  Work as one team in your school or have your own competition amongst all students.





Introduction

The world is changing more rapidly now than at any other time in our history. Global warming is affecting the natural world; developments in technology mean that the way we live and work in 20 years time will be very different from now. To maintain our health and mental well-being, schools will need to develop ways to help students connect to nature and learn about the importance of preserving the natural world.

Your Challenge

We want you to imagine and design an outdoor learning centre of the future. The centre must include an eco building using energy harvesting and saving technology to heat and power the building. The building must sit in an outdoor space which children can use to spend time in nature, and to learn about ecology and sustainable living.





What you should consider

The eco building



Think about how new technologies and building materials that haven't even been invented yet could be used in your eco-building.



How could the building be used to harvest energy from sun, wind and the air?



How will you store this energy?



What materials will you use to construct the building?
How will you make sure that they have minimal impact on global warming?

How could you follow biophilic design principles to bring natural elements into the building and reflect the patterns and shapes in nature as well as optimising the use of natural light and encouraging access to the outdoors.





The outdoor space



What should you include in your natural space to support the local wildlife and plants?

Are there any areas that you could create to teach specific subjects?



How will people using the space feed and clean themselves?





What we want to see in your designs

Use your imagination.
Imagine yourself at any time in the future.

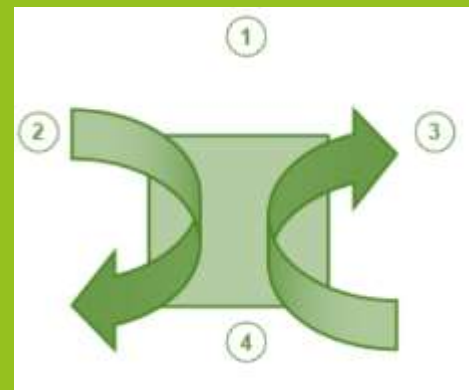
Think about how new technology will be invented that you could use throughout your design. Remember that solar energy and wind turbines have only been relatively recently introduced by the national grid.

Think about how new building materials could be invented. Or perhaps you might decide that traditional materials like wood will still be the best to use.

There will be new materials like graphene which was discovered just a few years ago.

New technologies may allow us to generate energy from very different places than today.

Energy storage batteries may work in a completely different way than today.



Think about the challenges of keeping young people connected with the natural world. What will excite them and encourage them to take responsibility for the environment?





Runners up

Our two runners up, as well as the winning entry, will receive a Tree Planting Pack with lesson plans, posters, badges, acorns to plant and 10 trees planted in Uganda for your school to adopt, track and chat to with the EcoMatcher App available online and in the app stores.

