|  |  |
| --- | --- |
| **Global Goals 2 and 6: zero hunger and safe water for drinking and sanitation.*** Where did the ‘Builders’ plan to feed future citizens of Ember?
* How did the ‘Builders’ plan for a safe water supply for drinking, irrigation and sanitation?
 | Responsible Team: advisors to the mayor OR, the Builders of Ember.Client: mankindCommission: (in no particular order...)* Decide on the best site for the city.
* Provide solutions for ongoing water and food supplies.
* Provide electricity for the city.
* Create the Book of the City of Ember for the future inhabitants of the city.
 |
| Big Questions:* **Where does drinking water come from?**
* **Can plants grow in artificial light?**
* **How can we provide food for our population.**
* **How can a river provide renewable electricity?**
* **Can a group of people live sustainably?**
* **How would an increase in population affect Ember?**
* **Who should be selected to enter Ember in the first place?**
 | Hooks for learning:* Visit Broxhill Farm.
* The City of Ember (graphic novel and novel)
* Visit Kielder Water to see the dam.
 | As STEM thinkers and problem solvers we can:* Recognise that rivers can provide electricity through hydro-electric generators.
* Recognise that river water can be used for irrigation.
* Recognise rivers as sources of food.
* Plan storage of food and other resources for 200 years!
* Explore the best growing conditions for plants with no natural sunlight.
* Recognise plants and animals in Ember (including those that are a potential nuisance I.e. rats, greenfly...)
 |
| As geographers we can:* Recognise why human habitations are built near cities.
* Begin to think about possible natural disasters that might necessitate a city like Ember.
 | As responsible citizens we can:* Keep future citizens of Ember City safe.
* Recognise the need in our own lives for recyling and saving water, electricity and other natural resources.
 |
| As writers and communicators we can:* Write a letter of application for a job.
* Write a diary entry for an imagined situation.
* Create a ‘How to...’ book for the future citizens of Ember City i.e.

-Instructions for growing plants-Explanations of how the hydro-generator works-Instructions for providing clean drinking water.-Explain the need to recycle with ideas.* Create myths about the darkness?
 | As artists and makers we can:* Draw some of the plants and animals living in Ember City and its river.
* Create an effective display of recycled goods in Ember?
 |
| As historians we can:* Imagine a short historical account for a city.
 |