**** Easterside Academy STEM provision 2020-21**

**Cycle 1 and Cycle 2**

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| **Team** |  | **Autumn**  **1** | **Autumn**  **2** | **Spring**  **1** | **Spring**  **2** | **Summer**  **1** | **Summer**  **2** |
| **EYS** | **Cycle 1/2** | Changes- Getting to know the new resources in the setting.  Construction of buildings and vehicles |  |  |  | Off-We go-Transport and journeys  Construction of buildings and vehicles |  |
| **KS1** | **Cycle 1** | How did dinosaurs become extinct?  Making crocodiles/reptiles | Who burnt London down?  Recreating buildings in London  Stem ambassador-engineering |  |  | How did castles best defend against invaders?  Constructing castles  STEM ambassador-engineering |  |
| **Cycle 2** |  |  | What’s in Space?  Making launch pad/rocket/space station |  |  |  |
| **Y3/4** | **Cycle 1** | What is the journey of the Cacao bean?  Making vehicle/ factory machine.  STEM ambassador- mechanical |  | How did Pompeii once become a lost city?  Reconstructing Pompeii and simulating earthquakes  STEM ambassador-engineering/coding |  |  | What does it mean to be civilised?  Making machines/fairground rides  STEM ambassador-  Construction |
| **Cycle 2** | How did the fire of Colchester start?  Reconstructing city of Colchester  STEM Ambassador-construction |  |  | How does the Body work?  STEM links-doctor/biology lecturer/secondary teacher |  |  |
| **Y5/6** | **Cycle 1** |  |  | Can we prevent the Frozen Kingdom from disappearing?  Links with HMS Protector-STEM focus | How safe were Victorian mines?  Construct a safety alert system for a mine.  Links with STEM-engineer/electrical ambassador. | How do things move?  Constructing moving animal-robotics  STEM ambassador-construction/computing |  |
| **Cycle 2** | Is there anyone else?  Constructing moon buggies  STEM ambassador-engineering/ astronomy |  | Which river had more impact-The River Nile or the River Tees?  Making shaduf/water irrigation system  STEM ambassador –engineering |  |  |  |

**\*A variety of Lego Kits /K’nex used throughout school- progression and continuity built into the task design and equipment used**