

## Year 2- Explorers

Lead subjects: Science, Geography, Design and Technology and History

### Design Technology

#### Key Questions

1. What is an axle?
2. How does a wheel rotate?
3. What is the purpose of a wheel and axle?
4. Can you think of different types of vehicles that use wheels and axles?
5. What are some examples of objects that use wheels and axles for movement?

#### Key Vocabulary

**Axle:** A long, slender rod or spindle that forms the axis around which a wheel rotates.

**Wheel:** A circular object that revolves around an axle and is used to transport or move things.

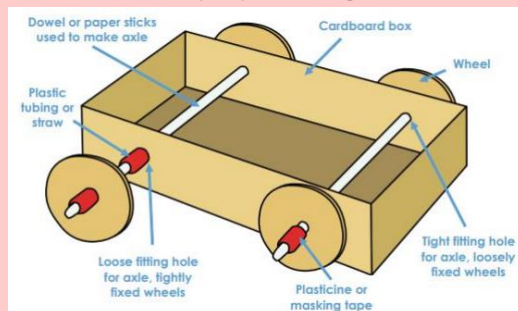
**Rotate:** To spin or turn around a central point.

**Friction:** The force that resists the motion between two surfaces when they are in contact.

**Transport:** The act of moving objects from one place to another.

**Chassis:** The supporting frame of a structure.

**Roll:** To move or travel smoothly by turning over and over on an axis.



### Geography

#### Key Questions

1. Where is Leicester located in the United Kingdom?
2. What is the capital city of Cuba?
3. How is the climate in Havana different from Leicester?
4. What are the main landmarks in Leicester and Havana?
5. What language do people speak in Havana?

#### Key Vocabulary

**City:** A large and important town.

**Transport:** The way people and goods move from one place to another.

**Landmark:** A famous or important building or place.

**Culture:** The way people live, including their beliefs, traditions, and customs.

**Capital:** The most important city in a country, where the government is based.

**Climate:** The usual weather conditions in an area over a long period of time.

**Language:** The method of human communication, either spoken or written, consisting of words in a structured and conventional way.



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Science

**Key Questions**

1. What is a material?
2. What are natural materials?
3. What are man-made materials?
4. What are the different properties of materials?
5. What does it mean for a material to be transparent?
6. What does it mean for a material to be waterproof?

**Key Vocabulary**

**Material:** A substance from which things can be made.

**Natural Material:** A material that is found in nature.

**Man-made Material:** A material that is made by humans.

**Properties:** Characteristic features or qualities of a material.

**Transparent:** Allows light to pass through, making objects behind it visible.

**Translucent:** Allows some light to pass through, but scatters it in different directions.

**Opaque:** Does not allow light to pass through.

**Waterproof:** Does not allow water to pass through.

**Flexible:** Can be bent or twisted easily without breaking.

**Rigid:** Stiff and not easy to bend or twist.



History

**Key Questions**

1. Who was Neil Armstrong?
2. Why is Neil Armstrong famous?
3. Who was Christopher Columbus?
4. How did Christopher Columbus make his voyage?
5. What did Christopher Columbus discover?



**Key Vocabulary**

**Astronaut** - A person trained to travel in a spacecraft, exploring space.

**Moon** - The natural satellite of the Earth.

**Apollo 11** - The space mission that landed the first humans on the moon, led by Neil Armstrong.

**Explorer** - A person who travels to new places to learn about them.

**Discovery** - Finding or learning something new.

**Ship** - A large boat used for sailing long distances.

**Voyage** - A long journey by sea or space.

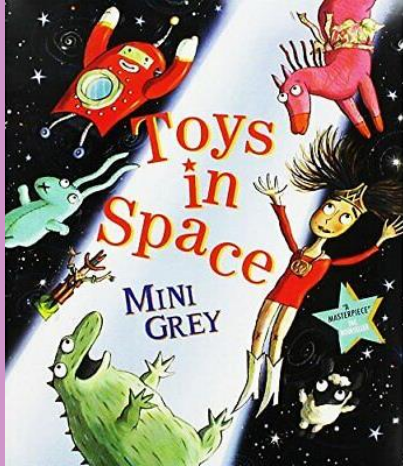
**Compass** - A tool that helps explorers find the direction they are traveling.

**Expedition** - A journey for a specific purpose, like exploration.

**Navigator** - A person who plans and guides a ship's route.

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**English**

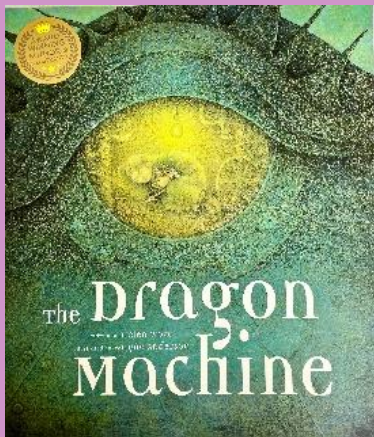


We will be using Toys in Space as a stimulus for our writing.

**Writing Outcomes-**

Found posters, diary entries, speech bubbles, notes of advice, space logs, invitations, fantasy setting descriptions.

Main Outcome- Own version fantasy world narrative.



We will also be using The Dragon Machine as a stimulus for our writing.

**Writing Outcomes-**

Dragon guide and encyclopaedia, letters of advice, dragon machine explanation, shopping list, description, letters in role.

Main Outcome- Own version dragon story.