



## DT Knowledge Organiser—Year 1/2 (Autumn Term)

### Cycle A

**Key enquiry Question:** *What are the mega structures local to our school?*

*Investigate, design and make a local mega structure*

What children must know and remember:

#### Key Vocabulary:

- Structures
- Nets
- Strength
- Stiffness
- Purpose
- Stability/Stable
- Base
- Man-made/natural
- Templates
- Joints
- Roll
- Fold
- Flange
- Tab

#### Key Knowledge:

- Know how to describe the purpose of structures
- Know how to turn 2D nets into 3D structures
- Know natural and man-made materials
- Know when a structure is more or less stable than another
- Know that shapes and structures with wide, flat bases or legs are the most stable
- Know that the shape of a structures affects its strength
- Know that materials can be manipulated to improve strength and stiffness
- Know how to build a strong and stiff structure by folding paper

#### Rolling



#### Folding





## DT Knowledge Organiser—Year 1/2 (Spring Term)

### Cycle A

**Key enquiry Question:** *What kinds of fruit salads can I buy in the shop?*

*Investigate, design and make a fruit salad*

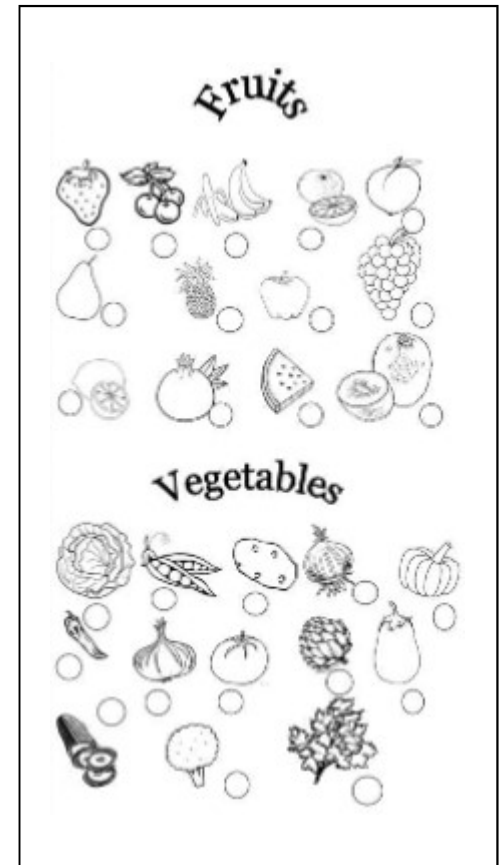
What children must know and remember:

#### Key Vocabulary:

- Hygienically
- Prepare
- Fruit
- Vegetable
- Design
- Cut
- Taste
- Texture
- Appearance
- Smell

#### Key Knowledge:

- To know the difference between fruits and vegetables
- To understand that some foods typically known as vegetables are actually fruits (e.g. cucumber)
- To know that a blender is a machine which mixes ingredients together into a smooth liquid
- To know that a fruit has seeds and a vegetable does not
- To know that fruits grow on trees or vines





## DT Knowledge Organiser—Year 1/2 (Summer)

### Cycle A

**Key enquiry Question:** *How do axles work?*

*Investigate, design and make a safari vehicle*

What children must know and remember:

#### Key Vocabulary:

- Mechanism
- Up, down
- Left, right
- Axle
- Wheel
- Turn
- Axle holder
- Rotate

#### Key Knowledge:

- To know that wheels need to be round to rotate and move
- To understand that for a wheel to move it must be attached to a rotating axle
- To know that an axle moves within an axle holder which is fixed to the vehicle or toy
- To know that the frame of a vehicle (chassis) needs to be balanced
- To know some real-life items that use wheels such as wheelbarrows, hamster wheels and vehicles

