St John Fisher RC Primary School

Year One Knowledge Organiser – Autumn Term Two – Design & Technology

Things I will be taught

I Know:

Lesson 4 - How to evaluate/compare different toy cars and say which I like the best and why, e.g. design, function

The purpose for each toy car, e.g. for a toddler to play with safely

Lesson 5 - How to design by drawing a diagram of a toy car, labelling the different components

Lesson 6- How to make a toy car for a purpose using materials including cardboard, and including wheels and axles - How to use technical knowledge to make my product strong and stable

Lesson 7 - Evaluate my product against a design criteria

Key facts to remember

- **Food has to be grown, farmed or caught**
- **Humans need a varied, balanced diet**
- **Food needs to be prepared in a clean, hygienic environment**

Key Vocabulary

Axle – a rod passing through the centre of a wheel.

Dowels– a rod used for holding together components of a structure.

Evaluate - form an idea.

Design

National Curriculum Objectives

- Generate, develop, model and communicate his/her ideas through talking, drawing, templates, mock-ups and, where appropriate, information
- Create simple designs for a product
- Use pictures and words to describe what he/she wants to do

Week One:

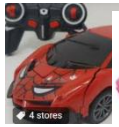
I am going to make a toy car

Purpose: To play with and to fit my teddy inside

I want my car to travel the further than my friends' cars when I push it

I will look at toy cars to decide what colour to paint it. I will look at pictures of toy cars on the Internet







Make

National Curriculum Objectives

- Select from and use a range of tools and equipment to perform practical tasks e.g. cutting, shaping, joining and finishing
- Build structures, exploring how they can be made stronger, stiffer and more stable

Week Two: I will plan my design.

I will need:

Cardboard box

4 Wheels

2 axles

Paint

Paintbrush

Week Three

I can help my teacher cut off the top of the box so that I can fit my teddy inside

I can paint my car, following my design idea.

I can help my teacher put the wooden dowels through the holes to make 2 axles

I can help my teacher attach 4 wheels onto the car

Evaluate

National Curriculum Objectives

- Evaluate and assess existing products and those that he/she has made using a design criterion

Week Four

I will put my teddy inside my car

I will take my turn to push my own car down a ramp to see how far it will go

I will measure how far the car travels and see if it goes further than my friends' cars

I will complete an evaluation grid as follows:

What worked well?

The challenges I faced

How I dealt with the challenges

What I would change next time