

Leintwardine Endowed CE Primary School Learning Journey Itinerary

‘Letting Our Light Shine’

SUBJECT : D & T

YEAR : A

TERM : Summer 1

YEAR GROUPS :
5/6

Key Question : Can you design, make and evaluate a fairground ride with a rotating part?

Previous Knowledge – We would expect children to already be able to:

END OF UNIT OBJECTIVES

Some children will not yet have met what is expected and will show that they are **emerging** because they can:

Most children will show that they have reached the **expected** level because they can:

Some children will have gone beyond the expected level and will show that they are **exceeding** because they can:

Identify the moving parts of a rotating ride/object
Explain how they think a ride/object is powered and/or built
Understand how pulley and belt systems can be used to transfer movement
Describe ways of strengthening and reinforcing structures
Work accurately and safely with a variety of tools, materials and electrical components
Evaluate a finished product fairly

Create a detailed diagram of their chosen ride/object
Suggest ways in which ideas for frameworks could be developed to ideas for their own fairground ride designs
Use a variety of materials and components accurately
Make a decision about what kind of ride they will make
Design an appropriate electrical circuit for their ride
Describe the process they will need to go through to successfully complete their product
Follow a design to create a fairground ride with a rotating part
Identify ways of improving their fairground rides to create a finished product of a high quality
Suggest ways they could improve their product if they were to make it again

Manipulate their pulleys to create different movements
Describe how an electrical circuit with a motor can be used to create rotating parts
Recognise ways in which they have been successful

ASSESSMENT OPPORTUNITIES

ENRICHMENT OPPORTUNITIES

Helping children to remember more

They are making it
Trip to the fair ?
Virtual reality opportunities for a fair ride

SUBJECT SPECIFIC VOCABULARY

Investigate, Fairground
Moving, Axel
Explore, Stable
Stability, Structure
Join, Strength
Weakness, Twist
Turn, Friction
Framework, Move
Rotate, Part, Design,
Criteria, Design criteria,
Evaluate, Improve

CROSS-CURRICULAR LINKS

Links that we can make to help children make sense of what we want them to know and be able to do.

Recount of a trip
Film an evaluation of result