

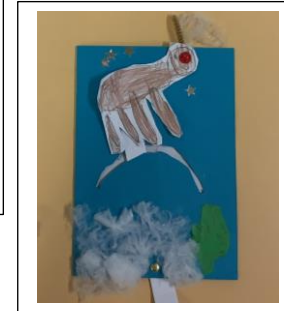
Newlaithes Nursery and Infant School Medium Term Planning

Year Group: 1

Term: Aut2

Subject: DT

Learning/ Skill: Levers and sliders



Resources

Books and cards with levers in.
Card strips, paper fasteners, hole punch, glue, scissors, fabric, sequins, DATA.ORG- levers

National Curriculum Links/Learning:

DESIGNING

Work confidently in a range of contexts.
Say what they are going to make (product), who it is for and how it will work.
Make simple design criteria.
Use what they have seen in other products to help them with design.
Use ICT if appropriate for their design.
Make templates or mock ups.

MAKING

Select from a range of tools and equipment
Mark out, cut and shape card for levers, sliders and images.
Assemble, join and combine materials and components.
Use finishing techniques.

EVALUATING

Suggest how their product could be improved.

Have they met design criteria?

TECHNICAL KNOWLEDGE

The movement of sliders and levers.
The language of mechanisms.

Prior Learning: Cutting and joining skills with paper fasteners in EYFS.
Maths language of position and direction.
Art and Design – drawing images observational skills and finishing skills

Activities/Teaching

Look at books and cards with levers. Who is it for? What is it? What do you think will move? How will we make it move? Does it work if you pull/push etc? Does it move in a straight line? (slider) Does it move in a curve? (lever)

Practical work on levers and sliders, making sure children use language e.g make tortoise slide from behind the shed. Diva with lever flame
Make mechanism and get children to draw own image to add to it.
What sort of card/calendar should I make? What part will move? How will it appeal to that age group/user? Look at a range of cards and calendars to get ideas for images and possible moving parts. Give each pair a card what is on it? What is it made of? Who is it for? 0-adult child

Use old Christmas cards to cut up and explore making mechanisms.
Think of criteria now they have some experience
Simple criteria – Does it move how you wanted it to? Will it appeal to the age group? Has colour been used appropriately? Surface decoration used?

How will it work? Note lever or slider mechanism and put model of this on plan. With support if needed consider what order to make everything in.

Think about what surface decoration could be added such as pom poms, glitter, sequins, fabric scarves, digital text or images from the computer (2 simple).

Evaluate their product.

Planning area ideas Tortoise with sliding eyes.

Plane flying over the sky (using pivot point-lever)
Santa sliding up the chimney.
Rudolph with moving legs (levers)
Pop up Christmas tree.
Bonfire slider

Subject Specific Vocabulary

Designing and making -something for somebody for some purpose (Data.org)

Appealing - something that is attractive or interesting

lever- they are always rigid and having a pivoting point- a mechanism that allows a greater force to be used. E.g scissors seesaw

Slider – a rigid bar which allows movement from side to side, along a straight line e.g bolt on a door

pivot,

slot- the hole through which a lever or slider goes

guide/ bridge- a piece of card used to keep a slider in place.

function- work properly to meet needs

design criteria- the specific goals that your item must achieve to be successful.

User- who they are making their product for.

push, pull, up, down, left, right, forwards, backwards, straight line and curve

mechanism- a device used to create movement in a product.

Any subject specific requirements?

User
Family or friends
Purpose of product
Christmas gift event poster interests

Future learning:

Pop up mechanisms Y2