

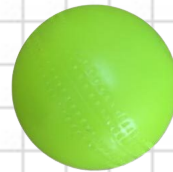


PREPARATION

THEME: GRAVITY PLAYGROUNDS

MYSTERY BAG

BALL (ANY KIND)



EXPLORATION RESOURCES

- ANY CARDBOARD, TUBES, HARBACK BOOKS
- SMALL TOY CHARACTERS
- STRING
- PAPER OR PLASTIC CUP (THAT CAN MAKE HOLES IN)
- TAPE
- PAINT
- LARGE PAPER/CARDBOARD
- STRONG MAGNET IF AVAILABLE
- PAPERCLIP



EXPLORATION

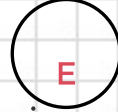
THEME: GRAVITY PLAYGROUNDS



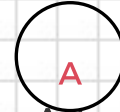
Science

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Technology



Engineering



Arts



Maths

Questions/Ideas:

Dropping Objects: What do you think will happen when you drop the ball? Let's check. What makes it fall down? Can you drop two things at the same time? Which do you think will land first? [should land same time] Can you drop something from a higher place?

Slides: Can we make a slide? What will happen when we let go of our toy at the top of the slide? Why does it go down? Can we make a slide to make the toys go faster/slower?

Swing Paintings: What happens when we stop pushing a swing? What do you think will happen to the cup? Why does it stop? What will happen if we swing our cup in a circle?

Defying Gravity: Which way does gravity pull things? Which way does a magnet pull things? Can we make a magnet have a pulling competition with gravity?

Learning:

Science: Gravity as a force; Gravity making all objects fall with same speed (not taking account of air resistance); Impact of gravity on falling and swinging objects; Magnetism as a force; Magnetism working against gravity.

Engineering: Inclined planes/ramps; Building swing painters.

Arts: Swing painting.

Maths: Comparison language: higher/lower, slower/faster

