



PREPARATION

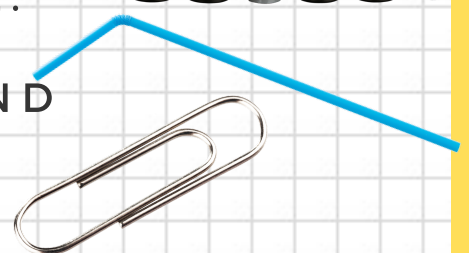
THEME: PULLEY ME UP

MYSTERY BAG

A HEAVY (ADULT) BOOK

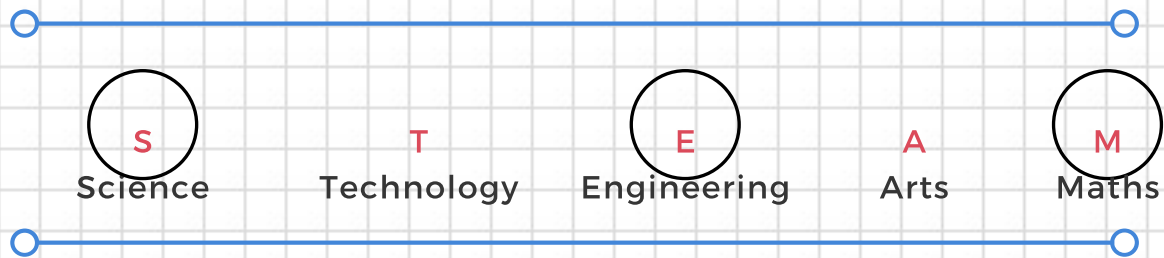
EXPLORATION RESOURCES

- STRING
- TAPE
- COAT HANGER
- SMALL TOY BASKET (OR A FRUIT/VEG CONTAINER TO MAKE ONE)
- SMALL TOYS THAT FIT IN BASKET/CONTAINER
- COULD ALSO BE HELPFUL:
STRAW OR PAPERCLIP AND
PLAYDOUGH OR TAPE



EXPLORATION

THEME: PULLEY ME UP



Questions/Ideas:

Horizontal Pulley: What will happen when we pull towards us? What about if we pull the other string? How can you get the basket from one side to the other without touching it?

Comparing Lifting: How hard is it to lift the book? Does it feel harder or easier when we lift it with a string?

Pulleys: If we put the string over the door handle/coat hanger how can we lift the book/object up using the string? Which way are you pulling the string? [down] Which way does the book/object move? [up] Is this easier than lifting the book/object with just the string and no pulley?

Looking for Pulleys: Find a blind: which way do we pull? Which way does the blind move?

Learning:

Science: Forces (pull, push, lift); Predicting, testing and observing.

Engineering: Pulleys transfer the direction of a force (pull down, load moves up); Building and testing pulleys.

Maths: Comparison language: heavier, lighter; Comparing heights/lengths of pulleys.

