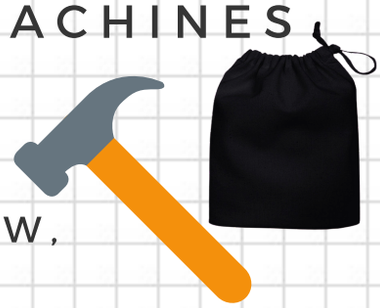
PREPARATION

THEME: MAGNIFICENT MACHINES

MYSTERY BAG



TOY (OR REAL) TOOL, E.G. SAW, HAMMER, SCREWDRIVER

EXPLORATION RESOURCES

- SELECTION OF ANY HARDBACK BOOKS, CARDBOARD, TRAIN TRACKS, AND/OR TRAYS

- STRING OR WOOL

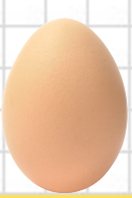
- PAPER CUP OR SMALL YOGURT TYPE POT

- COINS OR SMALL STONES

- TAPE

- SELECTION OF ANY TOY CARS/TRAINS, APPLE, OTHER TOYS OR FRUIT

- ONE EGG



EXPLORATION

THEME: MAGNIFICENT MACHINES

S Science | T Technology | E Engineering | A Arts | M Maths

Questions/Ideas:

Inclined Planes: How can we help your toy to get up to here? Can we build a ramp/inclined plane? Can you make it steeper/less steep? Which one is shorter for the toy to walk up? Which do you think would be easier for it?

Testing Inclined Planes: How many pennies do you think it will take to move this [car] up the inclined plane? What about this [apple]? Let's count to find out.

Rolling Down Inclined Planes: We need to get this egg safely to the ground. Can you build an inclined plane to get it there gently? Now can we try to get it down from a higher starting place?

Noticing Inclined Planes: Where can we see inclined planes? (Start to notice these around you - car park ramps, lorries unloading, slides etc.)

Learning:

Science: Predictions; Measuring; Comparisons; Inclined planes

Engineering: Simple Machine: Inclined Planes; Building inclined planes; testing and improving inclined planes

Maths: Counting weights to lift; Vocabulary: more/fewer, steeper/less steep, shorter/longer

Little STEAMers