



PREPARATION

THEME: BOAT BUILDING

MYSTERY BAG

BOAT (FLOATING
CONTAINER IF NO BOAT
AVAILABLE)



EXPLORATION RESOURCES

- LARGE BOWL OF WATER



- PLAY DOH OR PLASTICINE
([RECIPE TO MAKE HERE](#))



- ALUMINIUM FOIL



- COINS, SMALL STONES OR DRIED
PEAS



- JUNK RECYCLING INCLUDING
CONTAINERS, POTS, BOTTLE
TOPS ETC. PLUS SCISSORS AND
TAPE

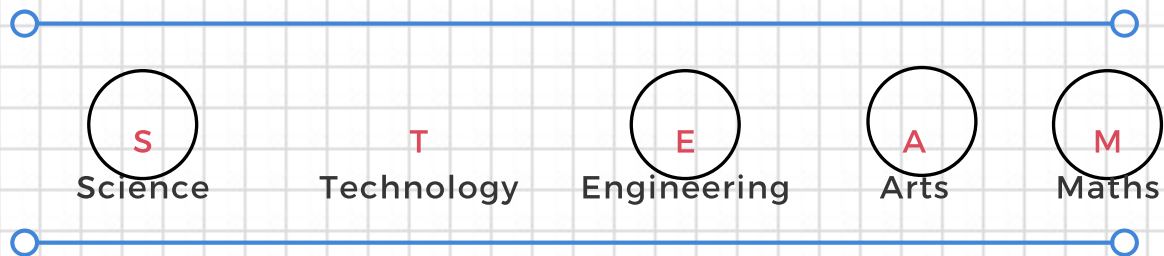


- OPTIONAL: DUPLO OR LEGO



EXPLORATION

THEME: BOAT BUILDING



Questions/Ideas:

Observing Boats & Containers: Do you think this boat will float or sink? Why? Let's check. What do you notice about its shape? Which containers do you think will float? Why? Which ones will sink? Why do you think that?

Play Doh/Foil Boats: Does a ball of play doh/foil float or sink? Let's test. How can we change its shape to make it float? How many [pennies] will it take? Can we make it even better so it takes more?

Junk Modelling Boat: What shall we use to make our own boat? Why is that a good thing to use? What else can we add to our boat (anchor, oars, sail)?

Challenges: Can we use the play doh to make a round/square/oval boat? Which is the best shape?

Learning:

Science: floating and sinking, basics of upthrust and water displacement in considering shapes for boats

Engineering: constructing boats out of various materials

Art: modelling with play doh, decorating boats

Maths: counting weights, more/less/fewer, shapes, size language

Problem Solving: identifying improvements to boats

Fine Motor: manipulating a range of materials for purpose

