



# YEAR 5 SCIENCE - AUTUMN 1 - PROPERTIES AND CHANGES OF MATERIALS

## PRIOR SCIENCE KNOWLEDGE

- YOU UNDERSTAND THE ROLE OF CONDENSATION AND EVAPORATION IN THE WATER CYCLE (YR4)
- YOU CAN OBSERVE HOW MAGNETS ATTRACT AND REPEL DIFFERENT MATERIALS (YR4)
- YOU CAN IDENTIFY APPLIANCES THAT RUN USING ELECTRICITY (YR4)
- YOU CAN COMPARE AND GROUP MATERIALS AND UNDERSTAND THAT SOME MATERIALS CHANGE STATE WHEN THEY ARE HEATED OR COOLED (YR3)

## KEY VOCABULARY

CONDUCTOR	SUBSTANCES THAT AN ELECTRIC CHARGE CAN PASS THROUGH WITHOUT DIFFICULTY.
DISSOLVE	WHEN A MATERIAL BECOMES INCORPORATED INTO A LIQUID SO AS TO FORM A SOLUTION
SOLUBLE/INSOLUBLE	IF A SUBSTANCE IS ABLE OR NOT ABLE TO BE DISSOLVED
SOLUTION	A TYPE OF MIXTURE OF TWO OR MORE SUBSTANCES

## NEW SCIENCE KNOWLEDGE

- COMPARE AND GROUP TOGETHER EVERYDAY MATERIALS BASED ON THEIR PROPERTIES, INCLUDING THEIR SOLUBILITY, TRANSPARENCY, CONDUCTIVITY AND RESPONSE TO MAGNETS.
- TO KNOW THAT SOME MATERIALS WILL DISSOLVE IN LIQUIDS TO FORM SOLUTIONS AND DESCRIBE HOW TO RECOVER A SUBSTANCE FROM A SOLUTION.
- TO USE KNOWLEDGE OF SOLIDS, LIQUIDS AND GASSES TO DECIDE HOW TO SEPARATE MIXTURES.

## PRIOR SCIENCE SKILLS

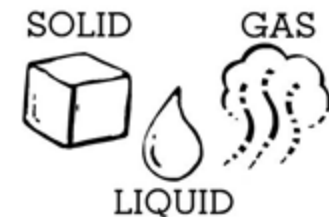
- TO SET UP SIMPLE PRACTICAL ENQUIRIES, COMPARATIVE AND FAIR TESTS
- TO RECORD FINDINGS USING SIMPLE SCIENTIFIC LANGUAGE, DRAWINGS AND LABELLED DIAGRAMS
- TO MAKE SYSTEMATIC AND CAREFUL OBSERVATIONS AND TAKE ACCURATE MEASUREMENTS USING STANDARD UNITS, AND A RANGE OF EQUIPMENT.

## NEW SCIENCE SKILLS

- TO GROUP AND CLASSIFY A BROAD RANGE OF MATERIALS BASED ON THEIR PROPERTIES
- PLANNING DIFFERENT TYPES OF SCIENTIFIC ENQUIRIES TO ANSWER QUESTIONS.
- TO DEMONSTRATE THAT DISSOLVING, MIXING AND CHANGES OF STATE CAN BE REVERSIBLE CHANGES
- USING TEST RESULTS TO MAKE PREDICTIONS TO SET UP FURTHER COMPARATIVE AND FAIR TESTS

## ENRICHMENT OPPORTUNITIES

- EXPLORER DOME: STUDENTS EXPLORE THE PROCESS OF EVAPORATING, CONDENSING, MELTING AND FREEZING DIFFERENT MATERIALS. THEY IDENTIFY THE DIFFERENCE BETWEEN A SOLID, LIQUID AND GAS





# YEAR 5 CURRICULUM LEAFLET AUTUMN 1



Solid



Liquid



Gas

## READING

WE WILL BE LEARNING ABOUT:

- HOW TO ANSWER INFERENCE QUESTIONS ABOUT A TEXT.
- MAKING PREDICTIONS ABOUT WHAT WE ARE READING.

WE WILL BE READING:



## WRITING

WE WILL BE LEARNING ABOUT:

- DEVELOPING OUR RANGE OF LANGUAGE DEVICES TO SUPPORT THE PURPOSE OF OUR WRITING
- PLANNING OUR WRITING BY NOTING AND DEVELOPING INITIAL IDEAS
- CONSIDERING HOW AUTHORS HAVE DEVELOPED CHARACTERS AND SETTINGS TO WRITE THEIR OWN NARRATIVES



## MATHS

WE WILL BE LEARNING ABOUT:

- PLACE VALUE, INCLUDING ORDERING AND ROUNDING NUMBERS UP TO ONE MILLION,
- ADDING AND SUBTRACTING NUMBERS WITH MORE THAN 4 DIGITS, INCLUDING USING FORMAL WRITTEN METHODS.
- READING AND INTERPRETING DATA REPRESENTED IN A VARIETY OF WAYS.



## RELIGIOUS EDUCATION

WE WILL BE LEARNING ABOUT

- BUDDHISM, AND RESEARCHING WHO THE BUDDHA WAS AND WHAT HIS VALUES WERE.
- WE WILL EXPLORE HOW 'THE FOUR NOBLE TRUTHS' AFFECT BUDDHISTS' LIVES.



## PHYSICAL EDUCATION

OUR SPORTS COACHES WILL BE TEACHING PE EVERY **TUESDAY** AND **WEDNESDAY** - PLEASE ENSURE CHILDREN WEAR THEIR PE KIT TO SCHOOL ON THOSE DAYS.



## COMPUTING

WE WILL BE LEARNING ABOUT:

- BEING SAFE ONLINE.
- KNOWING WHO TO TALK TO ABOUT BEING SAFE ONLINE.
- USING TECHNOLOGY WITH RESPECT.



## HOME LEARNING

YOU CAN HELP ME AT HOME BY:

- SUPPORTING ME PRACTISE MY TIMES TABLES UP TO 12x12.
- READING ALOUD WITH ME AND ASKING ME QUESTIONS ABOUT WHAT WE HAVE READ
- HELPING ME TO PRACTISE MY SPELLINGS.

