Key knowledge and skills	Key vocabulary
Science A solid keeps its shape and has a fixed volume. A liquid has a fixed volume but changes in shape to fit the container. A liquid can be poured and keeps a level, horizontal surface. A gas fills all available space; it has no fixed shape or volume. Granular and powdery solids like sand can be confused with liquids because they can be poured, but when poured they form a heap and they do not keep a level surface when tipped.  Melting is a state change from solid to liquid. Freezing is a state change from liquid to solid. The freezing point of water is OoC. Boiling is a change of state from liquid to gas that happens when a liquid is heated to a specific temperature and bubbles of the gas can be seen in the liquid. Water boils when it is heated to 100oC. Evaporation is the same state change as boiling (liquid to gas), but it happens slowly at lower temperatures and only at the surface of the liquid. Evaporation happens more quickly if the temperature is higher, the liquid is spread out or it is windy. Condensation is the change back from a gas to a liquid caused by cooling.  Water at the surface of seas, rivers etc. evaporates into water vapour (a gas). This rises, cools and condenses back into a liquid forming clouds. When too much water has condensed, the water droplets in the cloud get too heavy and fall back down as rain, snow, sleet etc. and drain back into rivers etc. This is known as precipitation. This is the water	Solid liquid gas state change melting freezing melting point boiling point evaporation temperature water cycle
Computing, AI is a technology that can learn and that it might have a bias. Artificial intelligence (AI) is when computers and machines can do things that usually need human intelligence, like learning, solving problems, and making decisions. Artificial intelligence is used in many ways in our lives. It helps us find information online, play games, use voice assistants, and even control some devices at home. AI can be positive and negative. I can think how AI might be used in the future. We will look at how artificial intelligence is used in music and the arts to create things.	<ul> <li>Data</li> <li>Artificial <ul> <li>Intelligence</li> <li>Algorithm</li> <li>Bias</li> </ul> </li> </ul>
Art	Painting



Top polest appropriate modicate control of the cont	Mixed media
I can select appropriate media to create my artwork. (e.g. ink,	
watercolours, aquarelles, charcoal, graphite, pastels) I can create all the colours I need by mixing primary colours, I can	• tint
	• shade
lighten and darken paint by adding white/black and different colour	• texture
shades.	<ul> <li>Brushes</li> </ul>
I can use different paint strokes to create different effects and textures.	<ul> <li>Primary colours</li> </ul>
	<ul> <li>Secondary colours</li> </ul>
D.T.	• chassis
All moving things have kinetic energy.	<ul><li>energy</li></ul>
Kinetic energy is the energy that something (object/person) has by	<ul><li>kinetic</li></ul>
	<ul> <li>mechanism</li> </ul>
being in motion.	• air resistance
Air resistance is the level of drag on an object as it is forced	• design
through the air.	<ul> <li>structure</li> </ul>
The shape of a moving object will affect how it moves due to air	<ul> <li>graphics</li> </ul>
resistance.	<ul> <li>research</li> </ul>
	<ul> <li>model</li> </ul>
	<ul> <li>template</li> </ul>
R.E.	<ul> <li>Sustainer</li> </ul>
Christians and Jews both learn about God being a guide and	<ul> <li>Guide</li> </ul>
protector from stories in the Old Testament.	<ul> <li>protector</li> </ul>
The 10 commandments are important to both Jews and	
Christians.	
P.S.H.C.E.	<ul> <li>Included</li> </ul>
To be excluded means to be left out.	<ul> <li>excluded</li> </ul>
If you, or someone else, feels like they are being excluded, they must	<ul> <li>Seeking help</li> </ul>
ask for help by talking to someone like a trusted adult.	
French	<ul> <li>Le papa- dad</li> </ul>
To understand how Epiphany is celebrated in France	<ul> <li>Le frère-the</li> </ul>
To say the nouns of 4 family members	brother
To write some personal information about a family member	<ul> <li>Le bébé- the baby</li> </ul>
To understand and say some parts of the face.	<ul> <li>Le grand-père- the</li> </ul>
To understand simple sentences using numbers and parts of the face	grandad
To write some simple sentences to describe an alien	<ul> <li>La maman-the</li> </ul>
	mum
	<ul> <li>La soeur- the sister</li> </ul>
	<ul> <li>La grande-mère-</li> </ul>
	the grandma



	<ul> <li>La famille the family</li> <li>Le nez- the nose</li> <li>La boucher the mouth</li> <li>La tête- the head</li> <li>Les cheveux- the hair</li> </ul>
Music Rock and roll music uses blues chord structures, with a fast tempo and strong vocals. It was created after the second world war and it was intended to represent happiness.  A base line is the lowest pitch line of notes in apiece of music, and a walking baseline (where patterns of notes go up then down again) is common in rock and roll.  Playing in time means all performers playing together at the same speed.  Playing 'in time' requires playing the notes for the correct duration as well as at the correct speed.	<ul> <li>Rock and roll</li> <li>Hand jive</li> <li>1950s</li> <li>Tempo</li> <li>Dynamic</li> <li>Notation</li> <li>style</li> </ul>
P.E. Translate words/ideas into actions and combine together. Develop a motif demonstrating some agility. Translate theme-related actions into creative travelling movements showing different levels, pathways and directions when travelling. Translate images into actions to communicate meaning and be able to communicate effectively with a partner or within a group. Use canon, formation changes, direction and level to improve our ideas and think of ways to improve ideas. Recognise good timing, execution and performance skills and be able evaluate the work of others using simple technical language.	<ul> <li>Combine</li> <li>Motif</li> <li>Agility</li> <li>Unison</li> <li>Static</li> <li>Stimulus</li> <li>Choreography</li> <li>Canon</li> </ul>

## Key dates and other information:

Thursday  $23^{\rm rd}$  January – New Vic Theatre visit