



I Can Statement - Year 5

Material Properties

Unit/Topic Overview	Pre-taught Vocabulary	
This topic introduces materials, exploring how their unique properties decide how we use them every day. We will test and compare different materials to see if they are hard, flexible, transparent, or waterproof. We will investigate how heat and electricity travel through thermal and electrical conductors, and how insulators can block them. Through experiments, we will discover how some solids dissolve in liquids to form solutions, and how you can use filtering, sieving, and evaporating to separate them again.	Properties	Thermal
	Opaque	Transparent
	Hard	Flexible
	Waterproof	Insulator
	Conductor	Solutions

RAG Rating:		Start	End
1.	I can compare and group materials based on their properties, such as hardness, solubility, transparency, and conductivity.		
2.	I can describe the properties of materials and explain why they are suitable for specific uses.		
3.	I can demonstrate understanding of reversible changes, such as melting, freezing, evaporating, and dissolving.		
4.	I can explain that some changes of state are reversible and can be reversed by heating or cooling.		
5.	I can identify irreversible changes, such as burning or rusting, and explain why they cannot be reversed.		
6.	I can investigate the properties of different materials using fair testing methods.		
7.	I can explain how mixtures can be separated using methods such as filtering, sieving, evaporating, and magnetism.		
8.	I can describe how dissolving occurs and identify factors that affect the rate of dissolving.		
9.	I can record and interpret results from investigations into material properties and changes.		
10.	I can use appropriate scientific vocabulary (e.g., dissolve, reversible, irreversible, solution, mixture) to explain their understanding.		