Castlefield School- Maths Year: Three Theme: Problem Solving

Problem solving is a really important part of maths, but, sometimes, questions can be tricky and you might find you are stuck. Being stuck is a good thing, it means you are facing a challenge, and you will make progress because of this challenge. It is important to have strategies to help you when you do get stuck, these are 7 strategies that we will be using during the year.

Act it Out	Trial and Error		Trial by Improvement		Looking for Patterns
A great way to start solving problems is to act out, make or draw what the problem shows. Physically acting out the situation presented in a maths problem or creating a representation helps you to better understand what the problem is asking. Act It Out	the ans that th condition If it do at wha your no Keep gu adjustion	problem by guessing wer and then checking e guess fits the ons of the problem. esn't work, have a look t you could change for ext guess. uessing and ng your g until you out.		ing the olution.	Many problems can be solved by identifying a repeating pattern in shapes or numbers and using that to predict what may happen in other situations. Solve a problem by looking for these patterns, repetitions or sequences in the data.
Sometimes problems can quite intimidating, by m it simpler it becomes mo accessible. When a problem is too o to be solved in one step, helps to split it into simpler problems. Then, these can be solved separately.	n be naking pre		leads to the solution rough the process. ork back using operations.	informa way to pattern Many p making solution list into tables t solve tr	List or Table problem by writing the ation in a more organised discover relationships and s among the data. problems can be tackled by g a list of potential ns. You can also, turn your o organised to help you tickier ns with lots of List or table