

Guidance

STEM stands for science, technology, engineering and mathematics. Carrying out STEM-based activities is a brilliant way to develop problem solving skills, encourage critical thinking and promote investigation. We have pulled together a list of suggested activities that you can carry out using items found around the home, such as shoeboxes, cardboard tubes and straws. Beneath each activity is a list of questions to prompt discussion and help your child to get the most out of this time.



Design a House	Build a Robot	Design a Maze	Build a Raft
<ul style="list-style-type: none"> • Draw a plan of your house before you begin. • What materials will you need? • What do you think the most difficult part will be? • What is the first task that you need to carry out? • Did you stick to your original plan? • What tweaks or changes did you need to make? • What improvements would you make next time? 	<ul style="list-style-type: none"> • Draw a plan of your robot before you begin. • What materials will you need? • What features will your robot have? • Which part of your robot will you construct first? • Did you stick to your original plan? • What tweaks or changes did you need to make? • What adaptations would you make next time? 	<ul style="list-style-type: none"> • Map out your maze before you begin. • How will you construct your maze? • What obstacles will your maze have? • Is there more than one way to reach the end? • Did you stick to your original plan? • How could you make your maze easier? • How could you make your maze harder? 	<ul style="list-style-type: none"> • Draw a plan of your raft before you begin. • What materials will you need? • How could you ensure that your raft holds a bottle? • How could you make your raft waterproof? • Did your original plan work? • What tweaks or changes did you need to make? • How could you adapt your raft to hold something heavier?