

## 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 choose from each day that can be carried 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.



Take a picture while you do this activity and tweet us @ClassroomSecLtd using the hashtags #CSKids and #HomeLearningHero to be in with a chance of winning a month's subscription to [classroomsecrets.co.uk](https://www.classroomsecrets.co.uk).

Make a Money Box	Design a Marble Run	Build a Boat	Design a Roller Coaster
<ul style="list-style-type: none"> <li>• Draw a plan of your money box before you begin.</li> <li>• What materials will you need?</li> <li>• What do you think the most difficult part will be?</li> <li>• What is the first task that you need to carry out?</li> <li>• Did you stick to your original plan?</li> <li>• What tweaks or changes did you need to make?</li> <li>• What improvements would you make next time?</li> </ul>	<ul style="list-style-type: none"> <li>• Map out your marble run before you begin.</li> <li>• How will you construct your marble run?</li> <li>• What features will your marble run have?</li> <li>• Is there more than one way to reach the end?</li> <li>• Did you stick to your original plan?</li> <li>• How could you make your marble run easier?</li> <li>• How could you make your marble run harder?</li> </ul>	<ul style="list-style-type: none"> <li>• Draw a plan of your boat before you begin.</li> <li>• What materials will you need?</li> <li>• How could you ensure that your boat can hold pennies?</li> <li>• How could you make your boat waterproof?</li> <li>• Did your original plan work?</li> <li>• What tweaks or changes did you need to make?</li> <li>• How could you adapt your boat to hold something heavier?</li> </ul>	<ul style="list-style-type: none"> <li>• Draw a plan of your roller coaster before you begin.</li> <li>• What features would your roller coaster have?</li> <li>• How could you ensure that your roller coaster is safe?</li> <li>• How many passengers could your roller coaster carry?</li> <li>• What materials would you need to build your roller coaster?</li> <li>• If you were to create a new ride, what would you change about your original design?</li> </ul>