



# Y'S WONDER CLUB EPIC ENGINEER BADGE

To earn your badge, you need to complete all four of the following tasks:

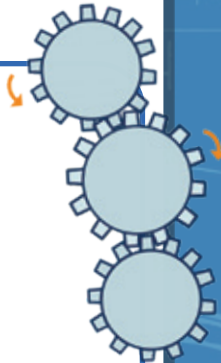


## 1 Identify a problem

Describe the problem or challenge that you're planning to solve with engineering, e.g. safely zipwire teddies out of your bed into a toy box, engineer a bridge that can hold a heavy weight or create a tall tower using only newspapers.

## 2 Design a solution

Draw or write down a plan showing how you are going to solve your problem or challenge. Try to think through some difficulties that might arise and plan how to overcome them. For example, how could you reduce friction if you're creating a zipwire?



## 3 Get building

Time to start construction! Use materials that you have around the house whenever possible - the recycling box is your friend! Send us a photo of your construction.

## 4 Test and improve your design

Does your solution work? If not, don't worry! Try to think of some improvements you could make and tell us about them here...



To be completed by a teacher or group leader:

Class/group name.....

School/organisation name .....

Number of children in class .....

Address to send the stickers .....

.....

.....Postcode.....

Teacher/group leader email .....

Your school or group must be a current Whizz Pop Bang subscriber, with children aged between 6 and 12 to apply for this award.

I ..... (teacher/group leader name) certify that to the best of my knowledge the information on this form is correct and that the class or group named above has completed the activities.

I have read the privacy notice below and the terms and conditions at [whizzpopbang.com](http://whizzpopbang.com)

Signed ..... Date.....

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Email your completed form and any photos or drawings to [Y@whizzpopbang.com](mailto:Y@whizzpopbang.com) with the subject line as 'Epic Engineer badge'. Or post to Epic Engineer badge, Whizz Pop Bang, Unit 7, Global Business Park, 14 Wilkinson Road, Cirencester, GL7 1YZ