CHALLENGE 1: IDENTIFY THESE ICONS.

CHALLENGE 2: CHOOSE ONE ICON AND EXPLAIN WHAT ITS LOGO REPRESENTS.

CHALLENGE 3: CHOOSE AN APP AND CREATE YOUR OWN ICON FOR IT!



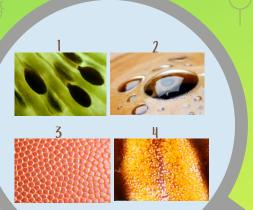
STEM@HOME TECHNOLOGY CHALLENGE!





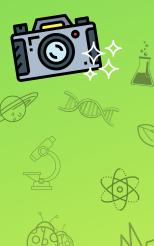
LOOK CLOSELY! CHALLENGE 1: CAN YOU IDENTIFY THESE MAGNIFIED IMAGES? EXPLAIN YOUR GUESS.

CHALLENGE 2: CAN YOU TAKE YOUR OWN CLOSE UP PICTURE, ZOOMING IN AS IF IT IS UNDER A MICROSCOPE? SHARE IT WITH US TO SEE IF WE CAN GUESS!



* STEM@HOME SCIENTIFIC CHALLENGE!





SCIENTIFIC HALL OF FAME!







CAN YOU NAME THE FAMOUS SCIENTISTS? TALK ABOUT THEIR DISCOVERIES, WHY THEY ARE FAMOUS AND ANY OTHER INTERESTING FACTS YOU KNOW OF OR FIND OUT! IS THERE A FAMOUS SCIENTIST THAT INSPIRES YOU? WHO IS IT, WHAT DID THEY DO AND WHY DO THEY INSPIRE YOU?

STEM@HOME SCIENTIFIC CHALLENGE!

DURING LOCKDOWN YOU HAVE NOTICED THAT A PIPE HAS BURST AND IT HAS STARTED TO LEAK INTO DIFFERENT ROOMS!

 WHICH ROOM WILL FILL UP WITH WATER FIRST?
 CHOOSE THE BEST MATERIAL TO STOP THE LEAK. EXPLAIN WHY YOU HAVE CHOSEN IT.

- SPONGE
- RUBBER
- W00D



3

5

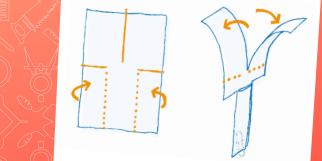
2

6

CAN WE FIX 119

4

CAN YOU DESIGN AND CREATE YOUR OWN PAPER HELICOPTER?



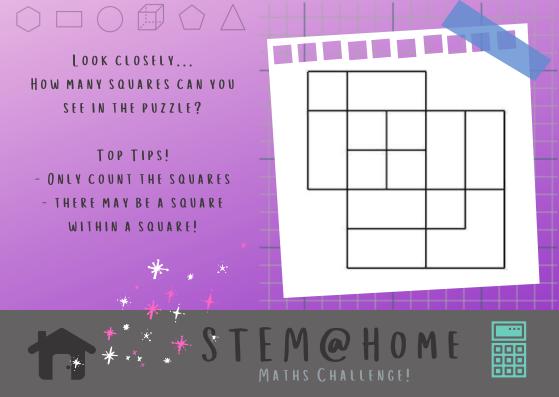
YOU WILL NEED: - A SHEET OF PAPER - PAPER CLIPS - SCISSORS

1. TAKE A PIECE OF PAPER AND MAKE THREE CUTS AS SHOWN IN THE ILLUSTRATION. THEN FOLD THE PAPER IN ON ITSELF AT THE BOTTOM HALF – USE A PAPER CLIP TO KEEP THE SIDES TOGETHER.

2. FOLD THE TWO HALVES OF THE REMAINING PAPER AWAY FROM EACH OTHER, TO FORM THE HELICOPTER BLADES.

3. STAND CAREFULLY ON A CHAIR AND DROP YOUR HELICOPTER, MAKING SURE IT STAYS UPRIGHT AS YOU LET GO!







HERE IS A MADE UP CODE FROM A WEBSITE. IT CHECKS IF SOMEONE IS ENTERING THE CORRECT PASSWORD, BEFORE LETTING THEM LOGIN. THE PROBLEM IS, THE DEVELOPER THAT WROTE THIS CODE MADE IT SUPER EASY TO TELL WHAT THE CORRECT PASSWORD IS. CAN YOU FIND THE PASSWORD IN THE CODE?

variable LoginForm = new Form()
variable AcceptedPassword = "5ecr3t123"
variable SubmittedPassword = LoginForm.PasswordField
when [LoginForm is Submitted()] do
 if [SubmittedPassword == AcceptedPassword] then
 ShowMessage "You have logged in successfully"
 LoadSecurePage()
 otherwise
 ShowMessage "Incorrect password entered"
 LoginForm.ResetForm()
 end
 done

STEM@HOME TECHNOLOGY CHALLENGE!