

# Meet APRIL



**APRIL isn't just a curious little robot with blinking eyes and clever tools. They are inspired by real science! The APRIL Hub (AI for Productive Research and Innovation in Electronics) is a group of brilliant researchers using Artificial Intelligence to shape the future of electronics and semiconductors.**

**With their spark of imagination and a heart full of curiosity, APRIL guides children through the exciting world of innovation, from discovering magical new materials to designing circuits, testing inventions, and even building 'digital twins'!**

**The picture book and every worksheet in this booklet is rooted in the five pillars of the APRIL Hub's research:**

- **Materials Discovery**
- **Device Design**
- **Circuit & System Design**
- **Testing & Verification**
- **Modelling**

**Through fun rhymes, hands-on activity ideas, and worksheets, APRIL helps children explore how AI can build a better, brighter world.**

# APRIL

## Materials Discovery

APRIL looks for the best material – strong, light, or with good memory – to build cool new gadgets. They use smart thinking to pick the perfect materials quickly and safely.

## Device Design

APRIL helps invent awesome devices, like robots or smart phones. They figure out the best way to make these gadgets work really well!

## System & Circuit Design

APRIL draws tiny maps with ideas called circuits that tell gadgets what to do. They use clever ideas to make these circuits fast, fun, and easy to build.

## Testing and Verification

Before anyone uses a gadget, APRIL checks if it's safe and works properly. They do many tests to make sure everything runs just right!

## Modelling

APRIL makes pretend versions of machines on a computer. That way, they can try out different changes without breaking the real thing!


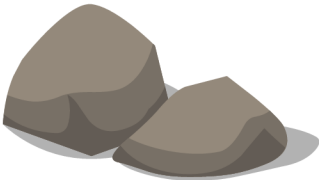

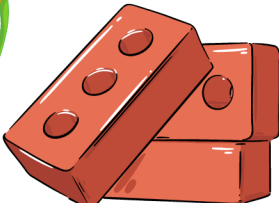
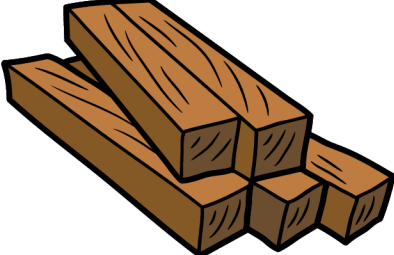





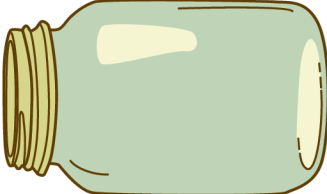
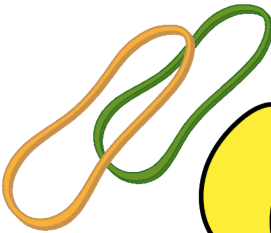
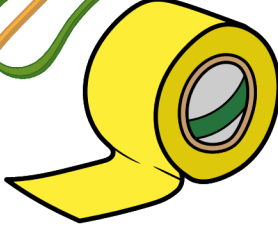

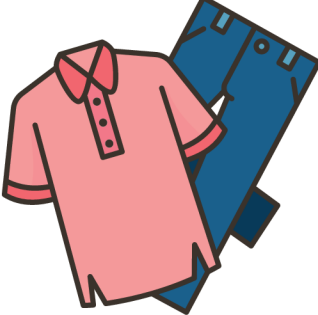
# APRIL's Treasure Hunt for Magic Materials

KS1 Worksheet: PILLAR 1 – Materials Discovery

APRIL is making a flying scooter. They need strong, light, and bendy materials.

Can you help them find the right ones?

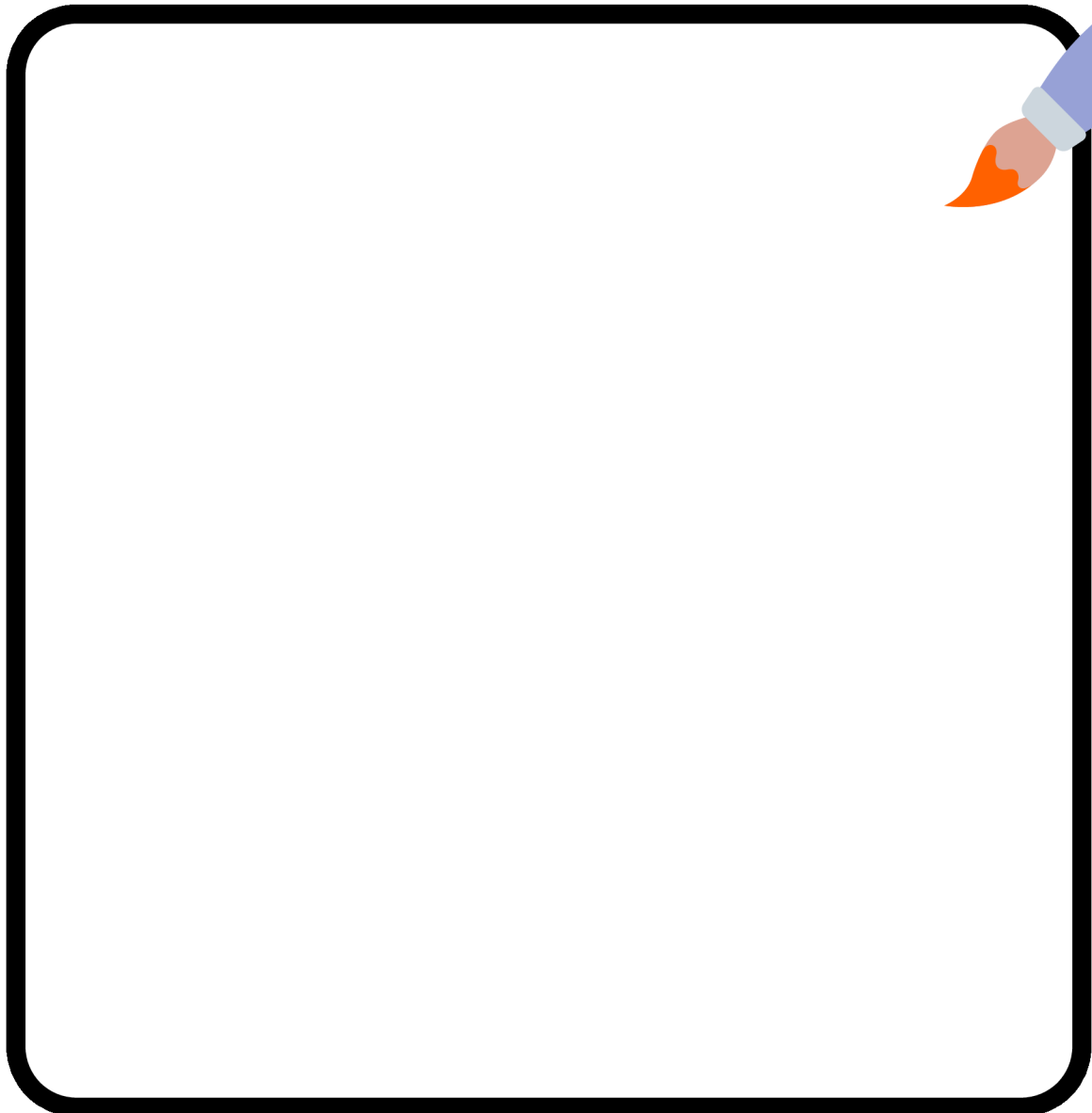
Circle each material which is under the right label:

Strong	Light	Bendy
    	    	    



# MY FLYING SCOOTER

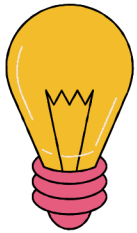
Design your own flying scooter.  
What does it look like? What can it do?



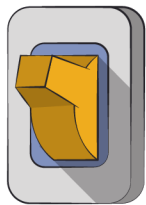
# ELECTRONIC CIRCUIT

Write the words under the pictures.

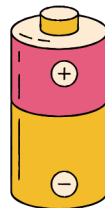
switch / battery / wire / bulb



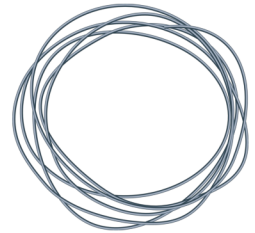
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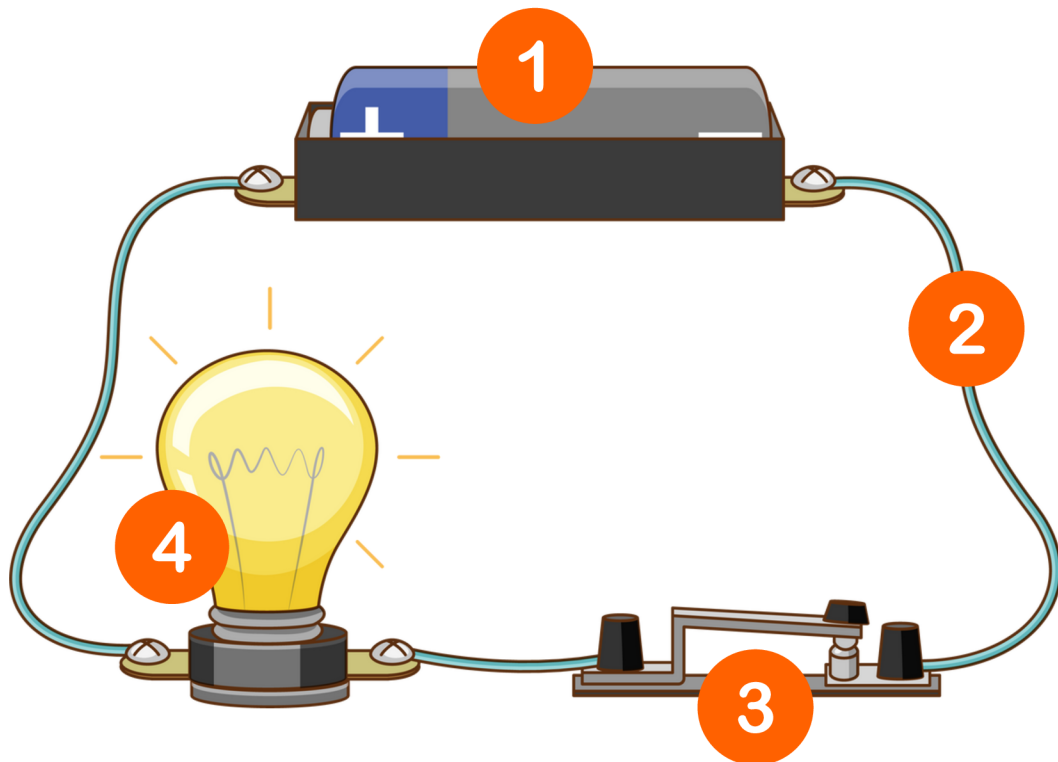


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Write the components of the electronic circuit below.



- 1- .....
- 2- .....
- 3- .....
- 4- .....