Baylab

DESIGN A LAB COAT competition

Theme 2025

Robotics

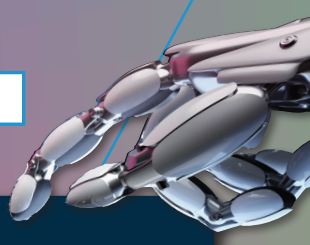
Welcome to Baylab's labcoat competition 2025. Building on our previous themes and the increasing importance of technology in our everyday lives, the selected theme for this year is 'Robotics'.

The judges are looking for original ideas of the wider use of robotics to solve some of the biggest challenges we face today. There will be one winner and four runner's up prizes available. Winners will receive a mystery prize, a set of labcoats for their school, and a digital workshop hosted by Baylab.

Who can enter?

All schools are eligible to enter, given that are within the age categories outlined below. The entries can be submitted individually or in teams. But we do ask you only submit the top two entries from your school for consideration. The winners and runners will be selected from each of the following categories:

Infant Year 1-2 | **Junior Year 3-6** | **Senior Year 7-9**



Don't forget to tag @UKBayer and use #LabCoatComp25 #Baylab on Twitter/X or Instagram if you would like to share your awesome lab coat creations with us.

Teacher instructions

British Science Week Competition (7th-16th March 2025)

BRITISH SCIENCE WEEK

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How to enter?

Why we are doing this?

- Technology is the “application of scientific knowledge for practical purposes” and in most cases refers to digital aspects.
- Digital technologies have advanced significantly in the last decade with the introduction of AI. The versatility and potential of digital technology allows for it to be applied to all aspects of our lives. In certain cases, it enhances our capabilities and processes such as in agriculture, healthcare, and communication.
- Our aim is to harness the power of technology to improve our lives i.e. diagnose disease quicker, grow better quality produce, improve the ease communication across borders, and enhance efficiency for everyday tasks.
- Therefore with the recent advancements, we have decided to focus our theme on ‘robotics‘ and raise awareness on the widespread use of robotics to solve our everyday problem.
- This theme links to a digital workshop that Baylab will be launching in the summer term focused on coding.

How to enter?

// 1 We recommend that the competition is completed before or during the British Science week (7th – 16th March 2025).

// 2 You can utilise the resources given in this pack to provide this competition as a lesson or activity.

// 3 There is a front and back template of a labcoat that students can design as per the theme. This can be done individually or as part of a group. The theme is open to interpretation and we encourage them to be as creative as possible.

// 4 From the entries, submit the top two per categories to Baylab.

// 5 Complete the entry form - if submitting via email then please complete **this form.** If completing by post then please complete the printable form on following page.

How to send in entries?

- Submission can be via email or post.
- Via email – the top two submissions only:
  - Email Baylab: **labcoatcomp@bayer.com**
  - With the subject line: labcoat competition entry; school name; age category
  - Example: labcoat competition entry; Baylab Academy; Infant
  - Format: preferably PDF
- Please make sure you complete this document online with your email
- Via post – Send top 2 entries alongside entry form to
  - Postal address: **Bayer PLC, Lab coat competition, Baylab, 400 South Oak Way, Green Park, Reading, RG2 6AD**

Closing date for entries is **Friday 25th April 2025**

We look forward to viewing all the amazing Lab Coats!

Don’t forget to tag @UKBayer and use #LabCoatComp24 #Baylab on Twitter/X or Instagram if you would like to share your awesome lab coat creations with us.

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If sending in by post, please complete this entry form alongside your paper submissions.

Entry Form

// **School name:**

.....

// **School address:**

.....

// **School email:**

.....

// **Number of students who took part:**

.....

// **Number of entries submitted:**

.....

// **Age categories of the entries:**

.....

// **Please say how this activity was used at your school:**

.....

// **Please say if this activity was compulsory or optional:**

.....

// **Please say how students responded to designing their own Lab Coats:**

.....

// **Please tell us how you heard about the competition:**

.....

Baylab DESIGN A LAB COAT *competition*

Thank you for taking part and well done to everyone who has entered our competition.

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DESIGN A LAB COAT
competition

Within this pack you will find:

// **1** Infant, Junior, and Senior lesson plans –
PowerPoints – only available with the email post registration – not online

// **2** Lab Coat Template

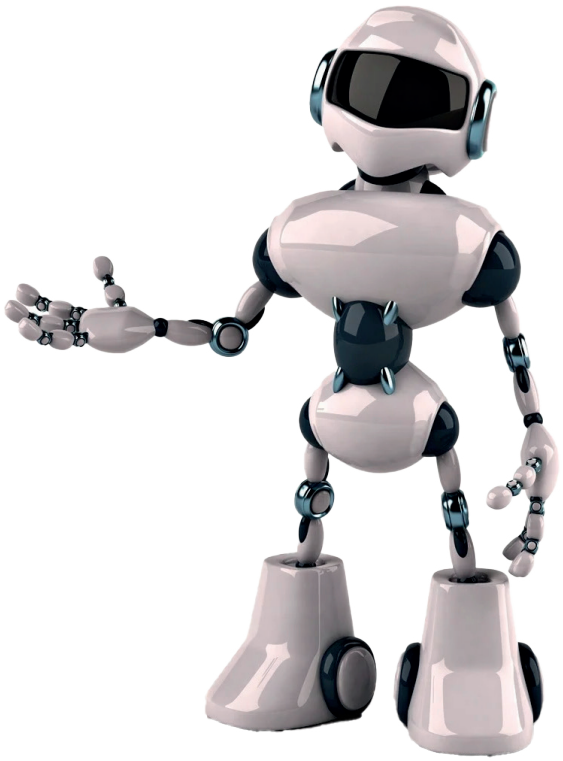
To support the delivery of this competition, we have provided PowerPoints for each age category to use if applicable.

Learning Objectives:

// Understand basic concepts of robotics

// Understand basic concepts of robot components

// Understand real world applications of robotics



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Infant Lesson Plan

Slide	Content	Resources
1-2	Title slide and agenda	n/a
3-4	**Discuss** science and technology – what is it, its importance and relevance to society today. **Activity** use whiteboards/paper to ask students to write/draw examples of technology that is most useful to them i.e. cars/ computers/phones	Whiteboards/paper
5	What are robots and why are they important? **Activity** show pictures/videos of different robots and ask students to identify what each robot does?	Whiteboards/paper
6	Different types of robots **Discussion** around the types of robots and how their appearance supports their uses	Whiteboards/paper
7	The future of robots **Discussion** discuss how robots have changed and how they may change in the future. **Activity** consider what current problems in daily lives and how robots could solve them.	Whiteboards/paper
8-9	Quiz	Whiteboards/paper
10-17	Introduction to the labcoat competition – breakdown of task, examples, and prizes.	Labcoat template

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Junior Lesson Plan

Slide	Content	Resources
1-2	Introduction and agenda	n/a
3-4	**Discuss** science and technology **Activity** use whiteboards/paper to ask students to write/draw examples of technology that is most useful to them i.e. cars/ computers/phones.	Whiteboards/paper
5-6	Robots and their applications **Activity** show pictures/videos of different robots and ask students to identify what each robot does?	Whiteboards/paper
7	Robots of the future **Discussion** discuss how robots have changed and how they may change in the future. **Activity** consider what current problems in daily lives and how robots could solve them.	Whiteboards/paper
8-9	Quiz	Whiteboards/paper
10-15	Introduction to the labcoat competition – breakdown of task, examples, and prizes.	Labcoat template

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Senior Lesson Plan

Slide	Content	Resources
1-2	Introduction and agenda	n/a
3-4	**Discuss** science and technology **Activity** use whiteboards/paper to ask students to write/draw examples of technology that is most useful to them i.e. cars/ computers/phones.	Whiteboards/paper
5-7	Robots and their applications **Activity** show pictures/videos of different robots and their uses. Follow-up with a class discussion on which robot they found most interesting and why?	n/a
8	How robots work **Discussion** on how each part of the robot works together to perform tasks.	n/a
9	The future of robots **Activity** have students research and present on a futuristic robot concept, explaining its potential impact on society.	Laptops/paper
10	Introduction to coding **Activity** use visual programming tools like Scratch and let students have a go at creating basic commands.	Laptop
11-12	Quiz	Whiteboards/paper
13-19	Introduction to the labcoat competition – breakdown of task, examples, and prizes.	Labcoat template
21	Resources for further learning – links available to courses, websites, and communities to learn about coding.	NA

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FRONT DESIGN TEMPLATE

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Turn over for BACK DESIGN TEMPLATE

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Name
(all names if a team)
and age
(all ages if a team)

Age category
(of the oldest team member)

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BACK DESIGN TEMPLATE

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Suggestion - cut out dotted line and hang on a line to view designs

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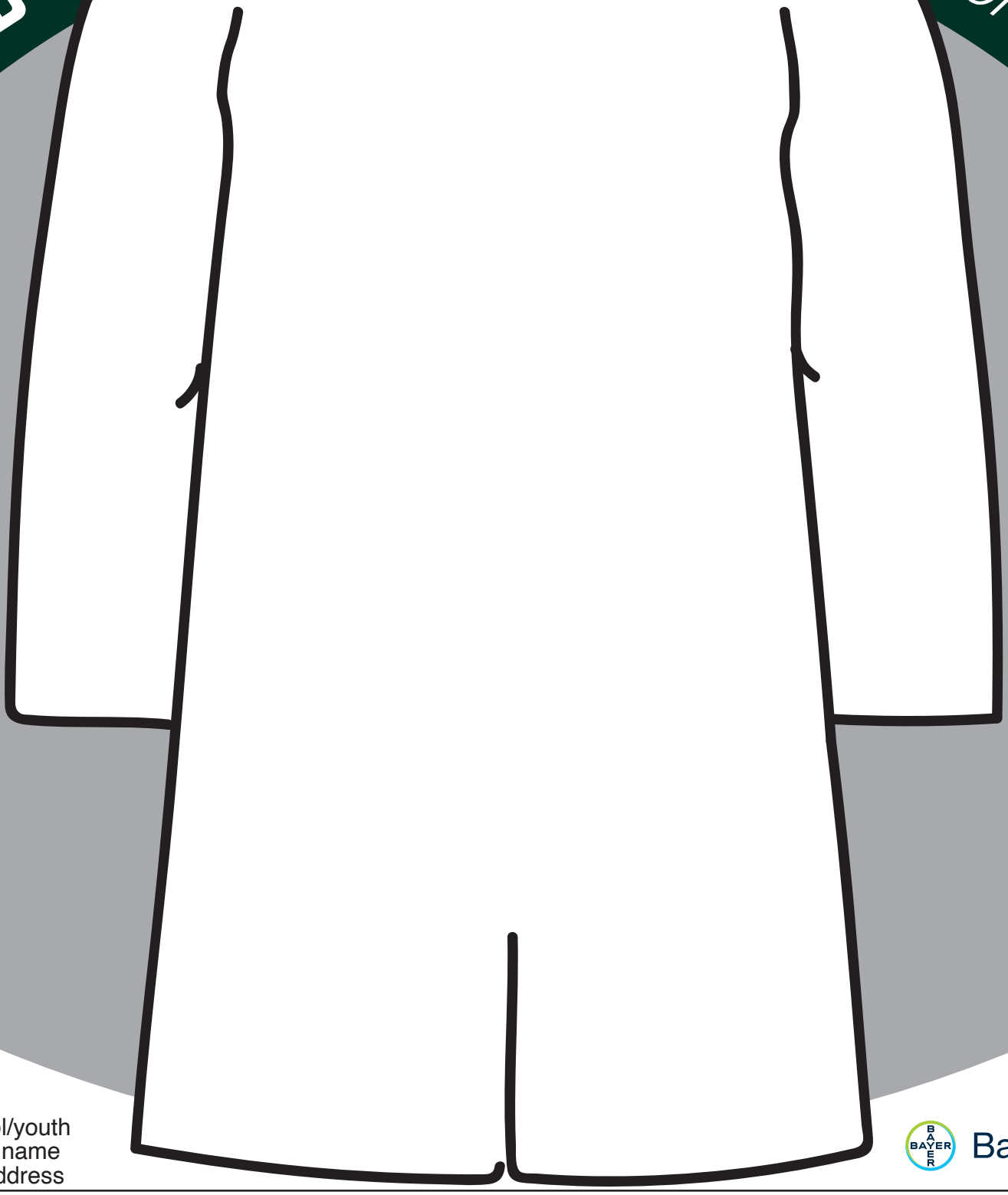

School/youth group name and address

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FRONT DESIGN TEMPLATE

BRITISH SCIENCE WEEK

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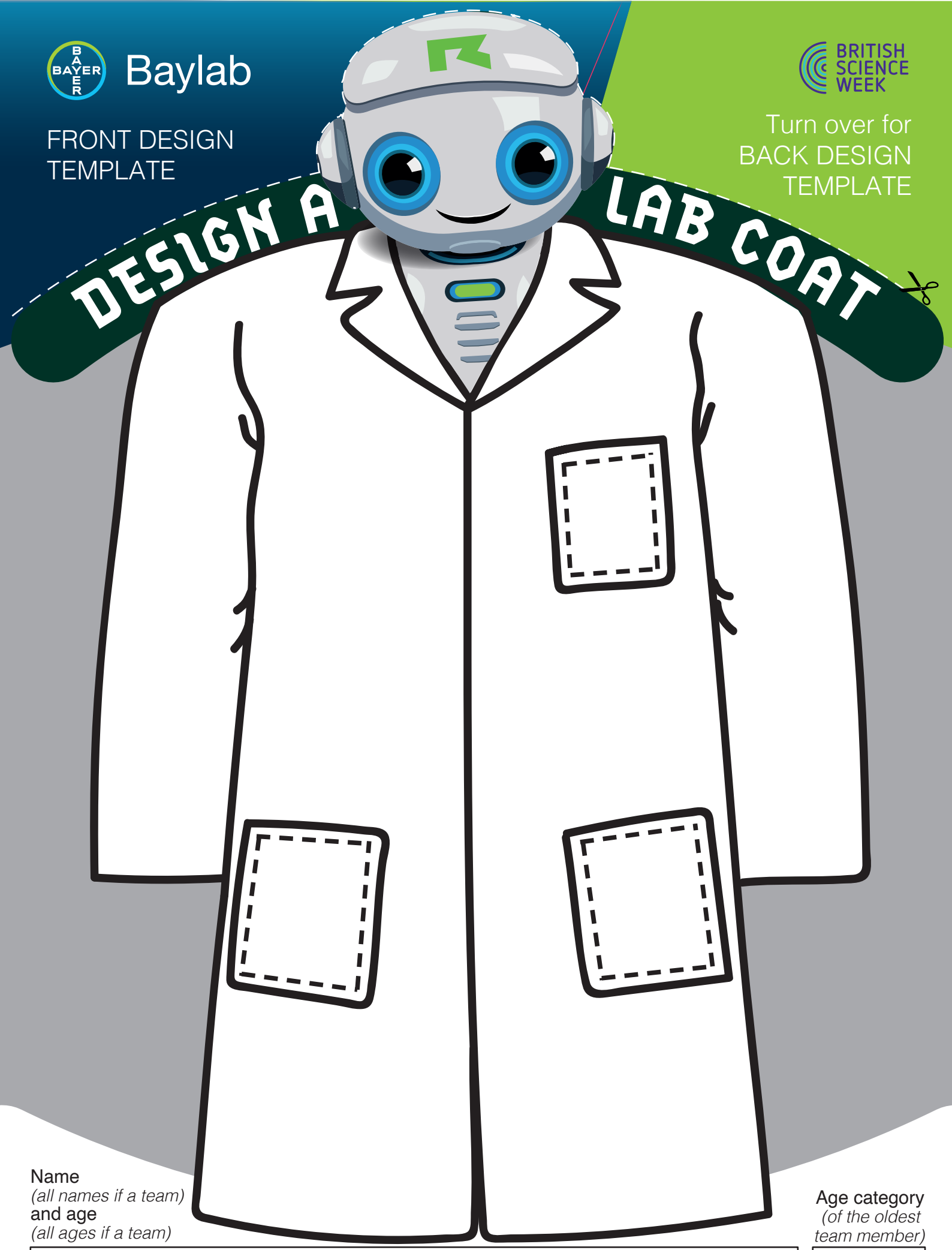
DESIGN A LAB COAT



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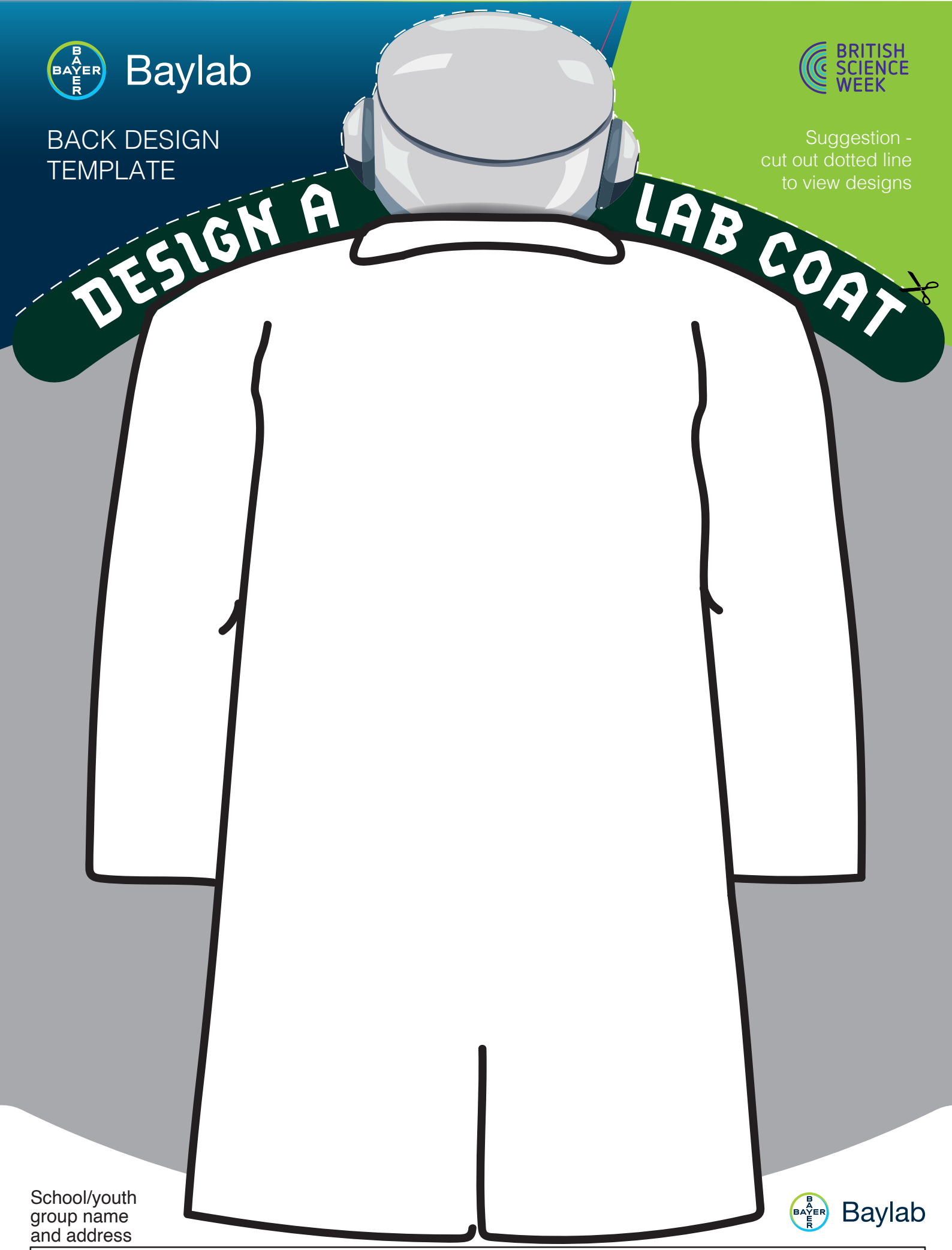

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