# **AUDIENCE ENGAGEMENT** ROYAL SOCIETY SUMMER EXHIBITION Karen, Beth, Kate, Micol

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## COMMUNICATION





# **OUTLINE OF THE COURSE**

- Understanding your audience
- What to communicate?
- Activity ideas
- How to hook & engage your visitors
- Presentation and interaction top tips
- Visitor interactions facilitation
- Scenarios and role playing visitor interactions





## WHAT VISITORS SAY...





## WHO ARE YOUR AUDIENCE?



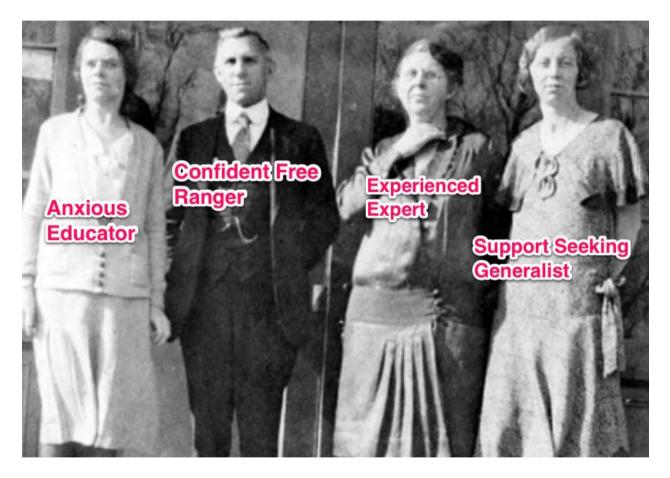






### SCIENCE MUSEUM

### **TEACHERS**





# **YOUNGER CHILDREN**

Think of a few questions or a demonstration that you could use to engage children under 8 years old







# WHAT MOTIVATES OUR VISITORS?

- Challenges and competition
- Surprise and novelty
- Choice and control
- Physical exertion
- Sensory experience
- Social interactivity
- Positive reinforcement
- A great end result/reward





# **SCIENCE CAPITAL RESEARCH**



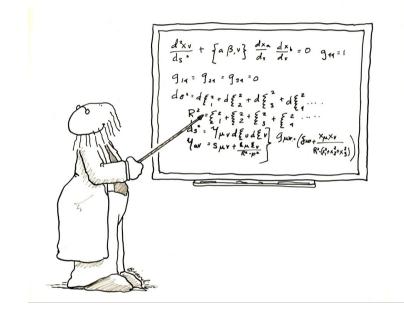
- What you know about science/ STEM
- What you do different science related activities
- Who you know who use and talk about science
- How you think about science



# SCIENCE ENGAGEMENT REFLECTION POINTS

| Language (verbal and visual)   | Science content knowledge   | Skills   |
|--|---|--|
| Help everyone feel included and that science belongs to<br>them. Don't distance it or make it feel like the 'possession' of<br>others (the presenter or scientist).<br>Explain any 'jargon'. | New information should feel like a natural extension of what<br>people already know.<br>Value and build on people's existing STEM knowledge and<br>experiences.                   | Tell people what science skills they are using in the activities/ experiences and help them to recognize they have these skills.             |
| do I see science as something I am part of?  | do I understand this science?   | what skills do I already have and use?   |
| Use everyday examples  | People  | Confidence and ownership   |
| Show examples of where and how science has useful applications in our everyday lives and can solve real life issues, to make the experience more relevant and meaningful.                    | Widen perceptions of who does science. Show <b>diverse</b><br>examples of the people who use science in their work to help<br>visitors recognise people they know who do science. | Make everyone feel welcome and confident to contribute in activities/ experiences.   |
| what does it look like when I bump into science?   | are there people I relate to represented here?  | is this a place for me, can I get involved?  |
| Promote 'science' talk   | Extend the experience   | Positive reinforcement   |
| Provide questions to get people thinking and talking about their experiences with science and help them make connections to their own lives.   | Help people to continue making science connections in other<br>places in the museum, and in their everyday lives (home,<br>school etc.)   | Reward science knowledge, behaviour and skills. Tell people they are being scientific, thinking like an engineer etc.                        |
| Invite people to share their own stories/experiences and<br>value them.<br><i>what might we talk about?</i>  | how can I continue this experience or find out more?  | Leave them with the feeling that 'I can do that'.<br>am I a sciencey person, is science something that people<br>believe that I can do well? |

## WHAT TO COMMUNICATE?







## **KEY MESSAGES & LEARNING OUTCOMES**

#### **Key messages**

The concept or idea that you want to communicate

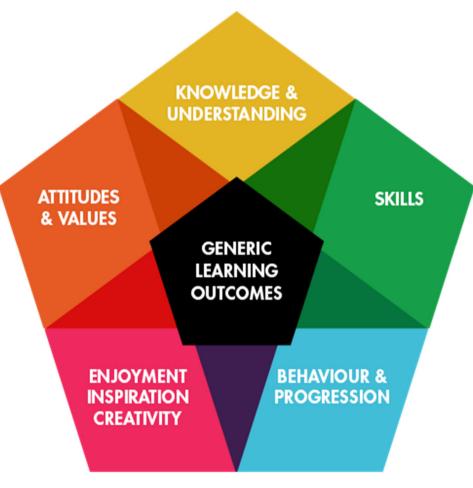
#### Learning outcomes

What you want your visitors to take from the experience with you





# **TYPES OF LEARNING**





## **LEARNING OUTCOMES** FUTURE ENGINEERS

Visitors will...

See the relevance of engineering to both the railways and their lives (knowledge)

Recognise that they use engineering skills like curiosity, creative problem solving and teamwork (skills)

Have a positive perception of people who use engineering and science in their work (attitudes)





## **LEARNING OUTCOMES** LIFE: A HEALTHY GAME OF CHANCE AND CHOICE

Visitors will...

Understand that health is a combination of chance, choice and risk (knowledge)

Realise the diverse work of the Medical Research council is relevant to my life (attitudes/values)

Medical research can help me make informed life choices (attitudes)

(And have fun while meeting real scientists)



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# **EVALUATING OUTCOMES**

- Observations
- Capturing feedback
- Voting







# **LEARNING OUTCOMES FOR YOUR INTERACTIONS**

Up to three things you would like <u>your visitors</u> to feel or do as a result of visiting your stand



# **HOOK – GET THEIR ATTENTION**

How? With something that's...

- Personal/Relevant
- Surprising
- Provocative





# **POWERFUL QUESTIONS & STATEMENTS**

- Could your lip balm kill you?
- Do men pollute more than women?
- Justin Bieber, human magnet.
- Does it matter if Redcar gets flooded off the map?





## **MEANINGFUL = MAKING A LINK**

- To everyday life
- To things they already know







# A QUESTION THAT IS...

#### • Personal/Relevant

Linked to students' lives, community or current events

• Surprising

Unexpected or humorous

Provocative

Opinion-generating, thought-provoking or curiositysparking



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### **OPENERS AND CLOSERS**





# **DON'T FORGET...**

#### • Opener: chance to introduce yourself

Hi, I'm Amy and I'm a brain scientist...

• Closer: connect to their lives again

Thanks for taking part. Next time you're walking try and spot...

Next time you solve a problem, remember that you're using your science skills.





## **LEARNING STYLES**

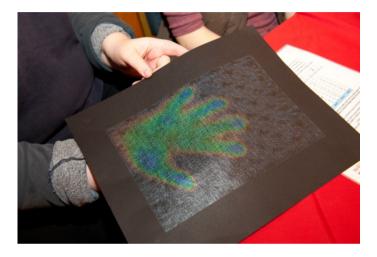




## **IDEAS FOR HANDS-ON ACTIVITIES**









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# **CONTENT IDEAS**

- Latest technology
- The real thing
- Handling objects
- Things they recognise (from their past)
- Dramatic/beautiful
- Finding out how it works





## FACILITATION





# WHAT IS FACILITATION?

- A two way conversation
- A process that encourages people to come to their own understanding of a topic (e.g. by discovering something themselves)



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## **OBJECT FACILITATION**





# SOME TIPS

- Use questions that get people talking:
  - who, what, why, how, when
  - describe using your senses



- Build on people's experiences and use their prior knowledge
- Summarise recent parts of the discussion
- Confirm/give key pieces of information
- It's not always about guessing a mystery it's about helping people focus in and think more deeply



## **STICKY MOMENTS**





## SURVIVAL GUIDE, TRAINING AND Q&A





## WHAT MAKES A GOOD INTERACTION?

- Start simple more detail if they ask
- Keep it short
- Make it personal & relevant use the word 'you'
- Ask questions and let them contribute
- Allow time to think
- Give encouragement and positive reinforcement







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## JARGON





## **BRINGING IT ALL TOGETHER**





# **AUDIENCE SCENARIOS**

#### 2-3 minute interaction

- Opener/Hook
- Introduce yourself
- Dialogue
  - ✓ Learning outcomes✓ Ask questions
- Close it down





# **TO THINK ABOUT**

- Who is your target audience?
- What do they know?
- Why should they care?
- Science engagement reflection tool (language, relevant examples etc.)







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