Cool for School Competition

This competition is designed to challenge students to explore the science, technology, engineering and mathematical principles covered by the national curriculum such as States of Matter, Pressure and the Gas Laws, Boiling, Evaporation and Condensation, Measuring Heat etc.

We are inviting teams of students to come up with a simple step by step experiment or presentation that demonstrates a scientific principle used in refrigeration (such as one of those above!).  Entries will be a recording of their work (eg video or presentation) and entry form, detailing what they have learnt about these science principles and how they worked as a team. The prizes will be a fantastic range of science kit for the school or club! Winning videos will also be published on our Fantastic Fridges website – to help us shout about how cool refrigeration is!

This new annual competition is designed by the Institute of Refrigeration - the UK professional body of refrigeration engineering experts - to raise awareness of the contribution of refrigeration science and principles to our world today

**Prizes offered**

* 1st Prize – £2000 value School Science/ STEM Club kit packed full of tools and materials to create great experiments and investigations for the whole class including thermometers, data loggers and books etc.
* Two runners up prizes - £1000 value School Science / STEM kit
* And a “Most innovative video” category winner - £1000 worth of School Science kit
* All entries who meet our criteria will receive a Certificate of Merit from the Institute of Refrigeration to recognise their work and highlight the Skills & Gatsby Benchmarks that were involved.

**Who can take part**

* Key stage 3/4 (11-16 years old) Students
* Teams of up to three students (up to three entries per school or club).
* Entries made on behalf of a club or school must be signed off by a teacher or activity leader. Entries made by friends or home school groups should be signed off by a responsible adult.

**Top tips**

1. Get yourself into a team of two or three. Planning is important! Be clear about what science topic you want to cover, why you selected it and how you are going to present it, step by step, before you start.
2. Think it through carefully so that your experiment is safe for you to carry out - we recommend you get an adult to check your ideas.
3. Get all your equipment ready - you can use a smart phone or a recorded computer presentation - no special cameras are needed
4. Make sure your entry is no more than 5 minutes in length.
5. Get everything ready and practice before you start recording.
6. Watch your playback and re-record if necessary - so you are sure viewers can hear the voice-over and that the explanations are clear.

**What will the judges be looking for?**

We are looking for entries that clearly explore the science behind what you are doing, that link this to something practical in modern life, and that make science fun!

**Entry rules**

* Only entries accompanied by the completed entry form will be considered.
* Recordings may include the name of the school, club but must not include any names of students taking part.
* Entries will become the property of the Institute of Refrigeration and will be included on our fantasticfridges and you tube channel if felt appropriate.
* The judges decision and allocation of prizes will be final.

**How to apply**

1. Create a link for your video using a file transfer site or youtube.
2. Complete the application form below highlighting why you chose your topic, what you learnt and how you worked together in your team.
3. Get an adult to sign your entry form.
4. Email your entry form and link to ior@ior.org.uk by 31st January.

**Closing date**

* 31st January 2020. The winners will be notified by end of February 2020.

**Data Protection**

The information provided on this form will be processed and used by the Institution and its associated organisations for the sole purpose of contacting you regarding the Fantastic Fridges competition. By providing us with your postal address, email, and telephone number you give us permission to contact you by these means.

We confirm that videos submitted may be uploaded to the Fantastic Fridges website and used in other related social media or websites. Names of students will not be released, but names of schools may be included. Videos will be held on line for a period of up to two years.

For further information on data protection and terms please refer to our Privacy Statement: [www.ior.org.uk/terms](http://www.ior.org.uk/terms).

**Competition organiser**

This competition is organised by the Institute of Refrigeration on Kelvin House, 76 Mill Lane, Carshalton, Surrey UK. Any queries should be addressed to ior@ior.org.uk

**Cool for School Competition Entry Form**

**Entry Form 2019 – closing date 31st January 2020**

**Please sign, scan and email back to** **ior@ior.org.uk**

|  |  |
| --- | --- |
| **School / Club / Adult name:** |  |
| **Department/club:** |  |
| **Full school address:**  |  |
| **School postcode:** |  |
| **Telephone number:** |  |
| **School Twitter account:**  |  |
| **Teacher contact name:** |  |
| **Contact Email address (please print):** |  |
| **Title of video** |  |
| **I completed the Submission form and it is attached** |  |
| Please tick the appropriate statement as we will need permission to use your submission on our website. The Institute of Refrigeration and other partners involved in the competition may also wish to use the content for promotional materials such as brochures, websites, social media and newsletters. We ask that you inform us in advance if there are any parents/carers who have not given permission for content featuring their children to be used for such purposes.Names of children will not be used. |
|  | **I have** received parental/guardian consent for students featured in the Cool for School video |
|  | **I have NOT** received parental/guardian consent for students featured in the Cool for School video |

**Terms and conditions**

* Each entry must be accompanied by the Video Entry Submission Form on the following page.
* The authorised person signing this form confirms that they give permission for the Institute of Refrigeration to share or use the videos submitted on line
* It is the teacher/lead responsibility to ensure all appropriate health and safety and risk assessments are in place when undertaking experiments.
* Permission is given for videos to be edited / formatted if necessary for use on the website
* Permission is given for any video submitted as part of this competition to be used on the website at [www.fantasticfridges.com](http://www.fantasticfridges.com).
* The judging on the winning entry and runner up prizes will be made by a team of experts nominated by the Institute of Refrigeration and their decision will be final. A list of winning videos and their schools will be published on the [www.fantasticfridges.com](http://www.fantasticfridges.com) website. No correspondence will be entered into regarding the decision of judges.

Please sign below to agree to the above terms.

|  |  |
| --- | --- |
| Teachers’ name (Print): |  |
| On behalf of (school/club/organisation) |  |
|  |  |
|  |
| Signature: |  | Date: |  |

The competition is being run by the Institute of Refrigeration. The IOR is a charitable incorporated organisation (Reg no 116869) run for the public benefit with a membership of over 2200 individuals reflecting the diversity of the refrigeration, air conditioning and heat pump sector. IOR Kelvin House, 76 Mill Lane, Carshalton Surrey SM5 2JR www.ior.org.uk

**Cool for School Competition**

**Video Entry Submission Form – closing date 31st January 2020**

**Return to ior@ior.org.uk**

|  |  |
| --- | --- |
| School name: |  |
| Title of your video: |  |
| Why did your team choose what you did?(75 words max)  |  |
| How does your video illustrate refrigeration?(75 words max) |  |
| How did your team work together and what skills did you use?(150 words max) |  |
| Where did you go to research your content (eg on line, speaking to experts, websites)(50 words max) |  |
| What did you learn by taking part in this competition(75 words max) |  |
| Add any other comments that you feel are important or that we should know about your entry(75 words max) |  |