Year 2015

Global Natural History Day

Youth Natural Science Activity

Rulebook

Preface

Global Natural History Day™ (GNHD™) is a natural science program open to all students and teachers without regard to race, sex, religion, physical abilities, economic status, or sexual orientation.

Note: This rulebook will come into force from the date of publication and be used for GNHD2015, which will replace previous editions. Global Natural History Day™ (GNHD™) and its logo are legal-registered trademarks, and shall not be used without authorization.

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"Uniting The World To Help Those In Need"

Educational Trailblazers

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What is GNHD®

GNHD™ program, sponsored by Global Health & Education Foundation, is an educational program aiming to develop young people's enthusiasm for learning natural history. With the help of the tutor, you will select topics that interest you, conduct your own research projects and learn in depth.

You will creatively present your research project by Performance or Exhibit. Through GNHD, you can master skills and abilities to learn natural science, and explore new perspectives.

You have the opportunity to exchange ideas with students from other schools and regions, and demonstrate your work after efforts.

Your success in researching and producing an GNHD entry may even take you onto Kenneth Behring Discovery Trip. It may be to some Nature reserve in China, or some country with breath-taking scenes on the Earth.

This is our GNHD!

Please Read this!

Before you begin work on your project, you, your teacher, and your parents should read this booklet carefully. It contains rules that you must follow to compete in all GNHD™ stages. More information on topics, sources, and deadlines are available on our website www.gnhd.org or from your regional GNHD™ office and affiliate GNHD™ coordinators.

Figure 01

Program Overview

1. Theme

Each year GNHD selects an annual theme for the contest. Although you may select a topic on any aspect of local, regional, national, or world history, your project's research and conclusions must relate clearly to the annual theme.

Analyzing the annual theme like 'Glossary' or concept description, will lead you to a misunderstanding of talking generally. Be careful to limit the scope of your topic to focus on an issue that can be explained and interpreted within the category limits of size and time.

2. Topic

Effective GNHD™ entries not only describe a species or a phenomenon, but they also analyze its environment and place it in its context.

To help you draw conclusions about your topic's significance in natural history, ask yourself the following questions:
1.Why is my topic important?
2.What impact did the species or phenomenon of my topic have on nature?
3.How is the significance of my topic in nature related to the GNHD theme?
4.How did my topic (the species or phenomenon) develop over time? Why?
5.How did events and atmosphere (social, economic, political, and cultural aspects) influence the species or phenomenon I have selected as my topic?

3.Awards

The most important rewards are the skills and new knowledge that you will acquire as you move through the NHD program, and understanding the spirit of teamwork through team participation and joint research.

At the regional level of competition, outstanding achievement will be rewarded by GNHD office. In Global Finals, medals, certificates and other non-cash awards will be given to winning teams by Global Health and Education Foundation.

4.Registration

GNHD™ only accepts group registration. One group usually constitutes 2 students and 1 mentor.

The mentor could be parents, teachers from your school, or staff from other institutions and educational organizations. One mentor can guide more than one team.

Students from elementary to high schools can register GNHD. The grade is subject to that when students register on GNHD website. Students in one team can be from different classes, grades and schools.

5.Divisions

Participant teams will select the division according to the grade when registering GNHD
•Junior Division—Grade 6 and below
•Senior Division—Grade 7 and above

Note：Selecting your division is adhered to the higher grade principle, which means the higher grade of students in a team is the choosing standard. E.g. in a team one student is in Grade 5, the other one Grade 7. Then this team would register Senior Division.

Please be careful with this selection as it cannot be amended. If mistaken, you need to register a new entry code. If the chosen grade is not the same as the actual grade, GNHD committee has rights to disqualify the team and evaluation marks.

6.Categories

You may enter one the following two types:

- Exhibition
- Performance

7.Safety

All the contests would be held in public locations. The participants are responsible for their own properties. GNHD™ and the staff are not responsible for any loss of properties.

8.Materials

The Guidebook, Rulebook, Evaluation Form sample and Written Material sample would be available to download on GNHD™ official website www.gnhd.org .

These materials can be helpful for the mentors as well as students to participate in GNHD. Some materials help you to know the standard and processes in order to prepare entries, while some are essential to participate in GNHD.

环球自然日2014全球总决赛（重庆）优秀作品－番茄树下好乘凉

II Rules Overview

General Rules

Rule 1: Annual Theme

Your entry must relate clearly to the annual theme and explain your topic's significance in natural science.

Rule 2: Participation

You must register on GNHD website to participate in this event. One group usually constitutes 2 students and 1 mentor, no more than 3 people. One student can only participate in one entry of each category. One mentor can guide more than one team.

Rule 3: Teamwork

In Exhibit or Performance, all students in a group entry must be involved in the research and interpretation of the topic. The presentation must be completed by students during GNHD.

Rule 4: Development Requirements

Entries submitted for competition must be original and have been researched and developed in the current GNHD. Revising or reusing an entry from previous years — whether it is yours or another student's — will result in disqualification.

Rule 5: Construction of Entry

You are responsible for the research, design, and creation of your entry. You may receive help and advice from teachers and parents on the mechanical, construction, materials and other aspects of creating your entry. Examples of reasonable help include:

•You may get help in typing your paper and other written materials.

•You may seek guidance from your teachers as you research and analyze your material, but your conclusions must be your own.

•You may use photographs and slides commercially developed.

•You may have reasonable help cutting out your exhibit backboard or performance props (e.g., a parent uses a cutting tool to cut the board that you designed).

Note: A whole entry designed by other people does not meet the requirements. For example a board printed by an advertising company is used directly as Exhibit board and Performance props.

Rule 6: Set-up Judging Day

You are responsible for setting up your own exhibit, equipment, or props on the judging day . You may have reasonable help carrying them, but the set-up must be completed by you and your teammate.

Rule 7: Equipment

All entries should be constructed with transportation, set-up time, size, and weight in mind (e.g., an artificial hill made of foam for an exhibit; a table with special functions for a performance). You may enter Global Finals, which means you must consider the long transportation of your entry. If the entry is not easy to transport, you may be faced with high expense and unpredictable damage.

Electricity power is available in Exhibit and Performance as the basic supply (on Exhibit site, we suggest you to bring power boards with long wires); if in need, the projection screens are available on Performance site, but there are no projectors, computers, speakers and other digital equipment or instruments provided. You will provide props and equipment including computers, relevant software, video and audio devices that are necessary for presenting your entry, .

Note: Contact GNHD office in your region before Judging day to confirm the provided facilities. The contacts are listed in 'Contact Us' on www.gnhd.org.

Rule 8: Discussion with Judges

Firstly, your entry should be directly apprehended by observers without the help of your additional comments.

Secondly, you will not give a formal introduction, narration or conclusion like slogans. Let the judges' questions guide the interview.

Ultimately, you need to have a thorough preparation about your entry because judges' questions will not be limited to entry's contents. You should be prepared to answer judges' various questions. It may be about your entry's design, crafts, research methods, creative thoughts, expenses, reference materials, teamwork and so on.

Rule 09：Costumes

Participants in the performance category may wear costumes related to the focus of their entry. In Exhibit, it is not suggested to wear costumes as props which may be considered as entry's derivatives by judges and cause mark deduction due to the oversize of entry.

Rule 10: Prohibited Materials

Items are potentially dangerous in any ways – such as weapons, firearms, animals, organisms, plants – are strictly prohibited. Such items will be confiscated by security personnel or contest officials and may result in disqualification. Replicas of such items that are obviously not real are permissible. Please contact your teacher and GNHD coordinator to confirm guidelines before bringing the replica to a contest.

Rule 11: Entry Title

Your entry must have a title that is clearly visible on all written materials . But it is not allowed to list school names and participants' names.

2. Written Material

Written Material is the important tool to help you improve research abilities. Please start to edit Written Material when you plan your entry, and effectively complete it. The template of Written Material can be downloaded from GNHD website www.gnhd.org.

Rule 12: Contents

Your Written Material must include the following contents in the order presented below:

1) A Title Page as described in Rule 13
2) A Process paper as described in Rule 14
3) Annotated bibliography as described in Rule 15

You must provide FIVE copies of Written Material printed on A4 paper, and stapled together on the top left corner. Do not enclose them in a cover or binder.

You need to submit the electronic copy of Written Material by clicking **"Entry Confirmation"** on GNHD website, and the paper Written Material on Check-in Day.

Rule 13: Title Page

A Title Page is required as the first page of Written Material in both categories. Your Title Page must include registration code, entry name, division and category.

Rule 14: Process Paper

All entries must include a Process Paper with the entry. It must describe in 1200 words or less how you conducted your research and created your entry. The process paper must include four sections that explain:

1. How did you choose your topic?
2. How did you conduct your research?
3. How did you select your entry category and create your project?
4. How does your project relate to GNHD annual theme?

Rule 15: Annotated Bibliography

An annotated bibliography is required for both categories. List only those sources that contributed to the research, sources that provide usable information or new perspectives. Sources of visual and audio materials and oral interviews must be included. The annotations for each source must explain how you used the source and how it helped you understand your topic.

For example:

Bryan Witsberger, *Tigers in the world,* (Goldsmidt, 2012) 100-135

This book clearly shows what kind of tigers there are, where they live and how many there are left in each region. This book helped me to get a clear idea of the world of tigers in general and provided specific information about the Siberian tiger.

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Rule 16: Format Guide

Use the following format for annotated bibliography:

•Book: Author, *Title of the book* (Publisher, Year) Page.

•Journal/Newspaper: Author, "Title of the article", *Name of the Journal/Newspaper (*Year-month-day) page.

•Others: including title, source and date. For example, interview with experts about Giant Panda's reproduction, format: Giant Panda's Reproduction, Interviewing XXX in Giant Panda Base, Year-Month-Day.

Rule 17: Plagiarism

You must acknowledge in your annotated bibliography all sources used in your entry, for example indicating sources of quoted words and pictures. Failure to credit sources is plagiarism and will result in disqualification.

3. Participation

Rule 18: Online Registration

A team must register on GNHD website to get the only entry code by clicking **"Registration".** The code cannot be modified once created, so your team must check all filled information. The "Registration" deadline is 7 working days ahead of Regional Selection. If there is no Regional Selection in your region, you can select the region in "Registration" that your team is heading to.

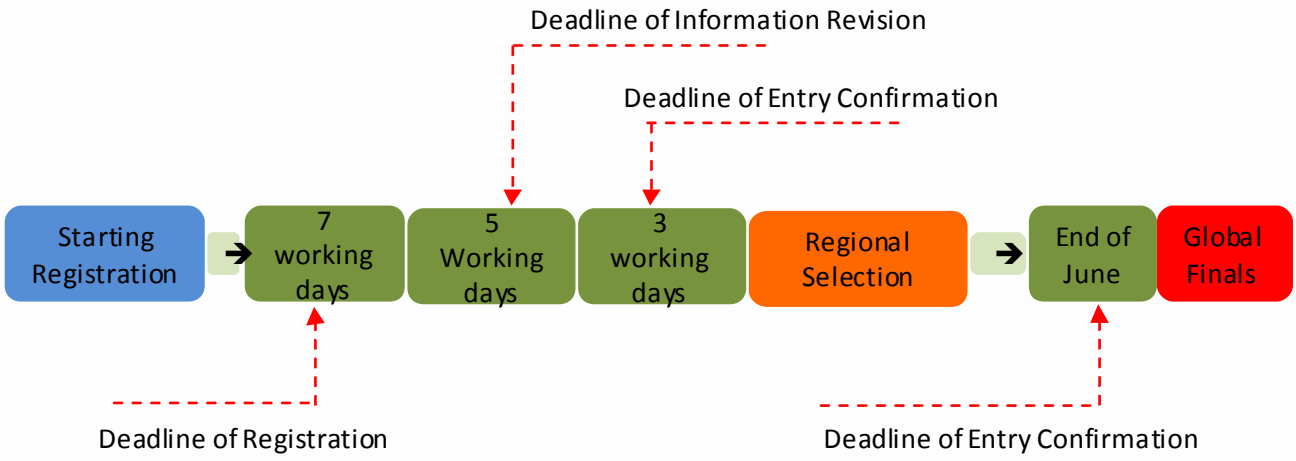
If registration information need to be revised, your team must click **"Information Revision"** on GNHD website within deadlines. The "Information Revision" deadline is 5 working days ahead of Regional Selection.

You will get a confirmation email after your team has submitted the registration. If you forget the code, your team can get it back by clicking **"Code Retrieval"** on GNHD website.

In regional selection, your team must submit Written Material by clicking **"Entry Confirmation"** on GNHD website within deadlines. Then your team will present on the judging day with printed **"Confirmation Sheet"**. The "Entry Confirmation" deadline is 3 working days ahead of the judging day in Regional Selection. The deadline of "Participation Confirmation" for Global Finals will be further notified.

For example: the judging day of Regional Selection is on May 15th, 2015. Then "Registration" deadline is at 24:00 on May 5th.,"Information Revision" deadline at 24:00 on May 7th and "Entry Confirmation" deadline at 24:00 on May 11th.

Figure 02



Rule 19: Regional Selection

Getting an entry code means the completion of your team's registration. According to the GNHD annual theme, your team will confirm the topic, and start to research and write Written Material. Based on the entry category that interests you, you must get your entry (Exhibit or Performance) ready to participate the following stages:

1) Preliminary Regional Selection

(1) No upper limit of registration team numbers;

(2) Selecting teams to enter Secondary Regional Selection;

2) Secondary Regional Selection;

(1)The team numbers entering into Secondary Regional Selection must not be over 40, if no preliminary selection or less than 160 teams in Preliminary Selection in every division;

(2) The team numbers entering into Secondary Regional Selection must not be over 25% of that in Preliminary Selection, if more than 160 teams in Preliminary Selection in every division;

(3) Proportion of First, Second and Third Prize in Secondary Regional Selection is 2:3:5.

3) Global Finals：

(1) Only Final and Second Prize in Secondary Regional Selection can apply Global Finals ;

(2) In every division, the team numbers applying for Global Finals must not be over 25% of that in Secondary Selection;

(3) The division hosting Global Finals can have 75% of teams in Secondary Selection applying for Global Finals ;

(4) Proportion of First, Second and Third Prize in Global Finals is 2:3:5.

Figure 03

	no preliminary selection / less than 160 teams in Preliminary Selection	more than 160 teams in Preliminary Selection	Notes
Team Numbers in Preliminary Selection	No	Selecting teams to enter Secondary Regional Selection	
Award in Preliminary Selection	No ranking, only selecting teams for next stage		
Team Numbers in Secondary Selection	No more than 40 teams to enter Secondary Selection	No more than 25% of that in Preliminary Selection	
Award in Secondary Selection	Proportion of First, Second and Third Prize is 2:3:5		
Team Numbers in Global Finals	No more than 10 teams	No more than 25% of that in Secondary Selection	
Award in Global Finals	Proportion of First, Second and Third Prize is 2:3:5		

Rule 20: Global Finals

Global Finals is held in the chosen region in summer every year.

The winning teams of First and Second prize are eligible to participate in the Global Finals. Relevant travel expenses will be borne by your own team.

Members in a team who do not attend Global Finals (mentor or student) will not be awarded with pedals, certificates or chance to apply "Kenneth Behring Discovery Trip".

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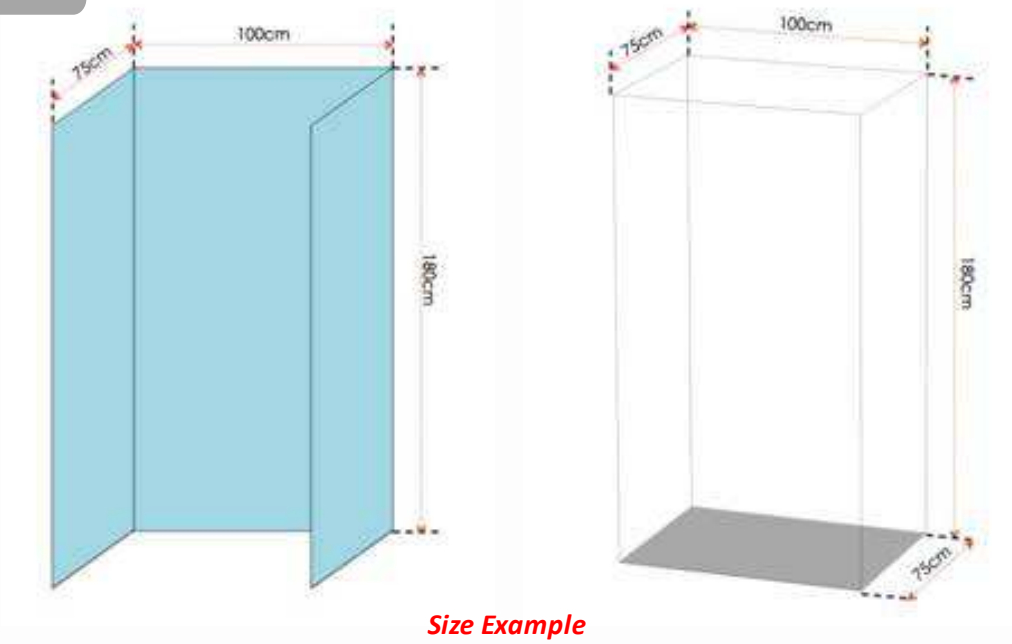
III. Category Rules

1.Exhibit Category

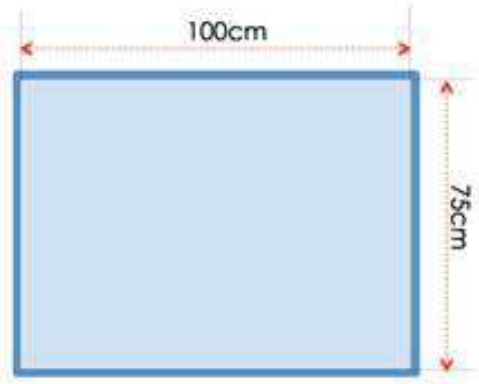
An exhibit is a visual representation of your research and interpretation of your topic's significance in natural science, much like a small museum exhibit. The analysis and interpretation of your topic must be clear and evident to the viewer. Labels and captions should be used creatively with visual images and objects to objects to enhance the message of your exhibit.

01	Size Requirements	• The overall size of your exhibit when displayed for judging must be no larger than ： • 100cm wide, 75cm deep, and 180cm high(see figure 04); • Irregular shapes(columnar, circular or stacked shapes, even other composed constructions) are all permissible. But its size must be no larger than the above requirement. (see Figure 04); • All equipment and props related to an exhibit entry are included in the size (such as display stand, decoration, media carrying device, and specimens needed in Exhibit); • *Note: The measurement of the exhibit does not include the table on which it rests; however, it does include any stand that you create and any table drapes.*
02	Word Limit	• A 1200-word limit applies to all text on an exhibit entry, no matter it is the component of an entry or appears shortly in the media. • This includes the text of titles, subtitles, graphs, timelines, media devices (e.g., photo albums, PowerPoint, audios and videos etc.) (Figure 05). • Punctuation, brief citations crediting the sources of illustrations or quotations included on the exhibit do not count toward the 1200-word limit.

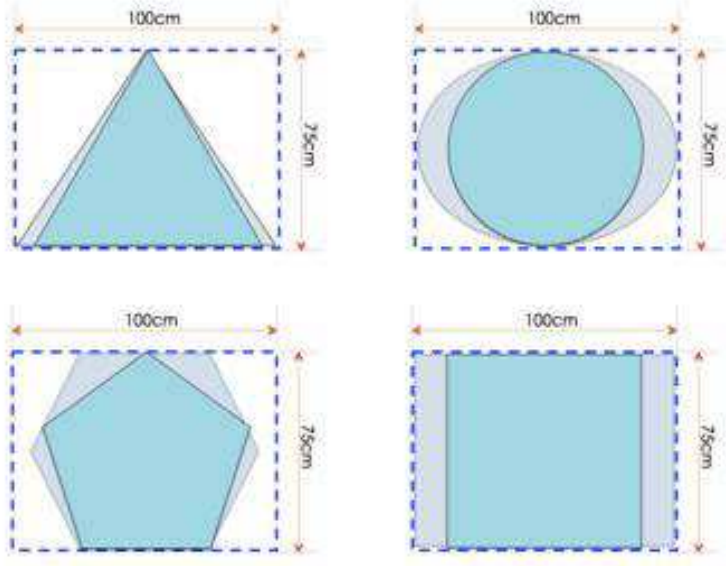
Figure 04



Size Example



Size Standard on Exhibit Ground (view from top)



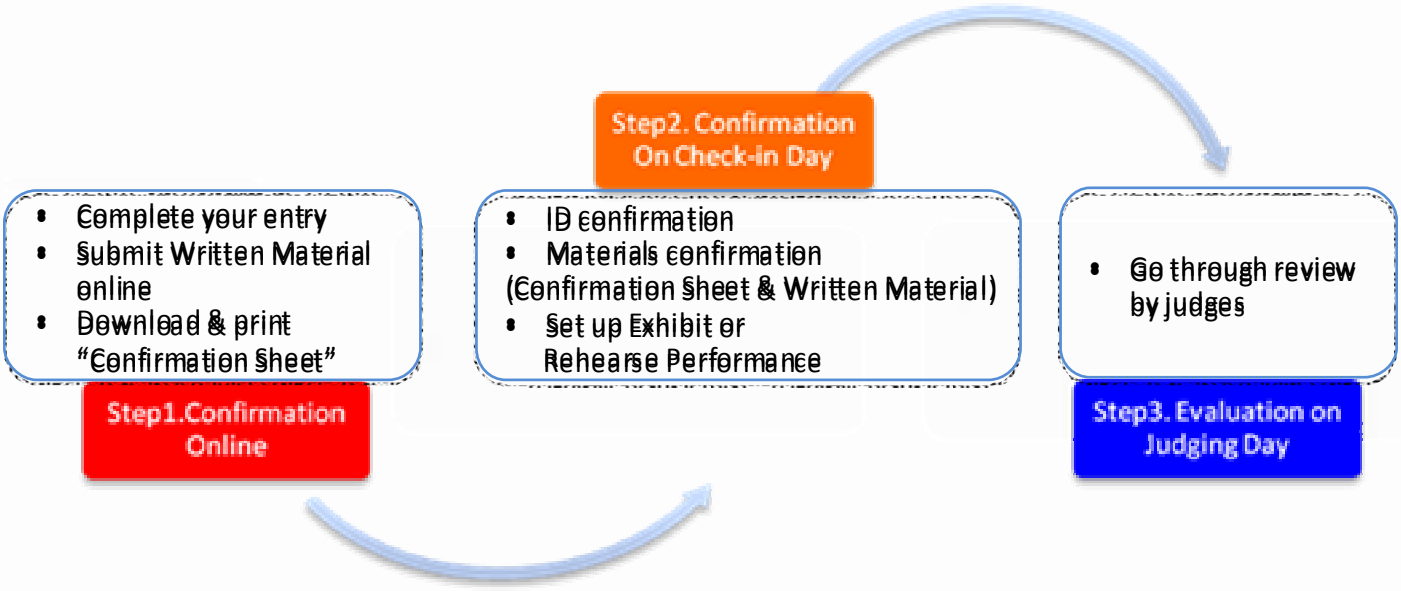
Size Example of Polygons on Exhibit Ground

Figure 05

Exhibit Text	Word Count	Explanations
South African Chinchilla	1	The name of one species counted as one word
"These false 'eyespots' apparently play an important role..." quoted from Schaller, G., *The Deer and the Tiger: A Study of Wildlife in India (Chicago Press, 1967)*	0	Quotation and annotations are not counted in word numbers
Through research, we find	4	Text content

03	Media Device	• Media devices (e.g., DVD players, tablets, mp3 players, video monitors, computers, etc.) used in an exhibit must not run for more than a total of three minutes. • Words in the media device also count toward 1200 word-limit. • Viewers and judges must be able to control media devices. • Any media devices must fit within the size limits of the exhibit. • Any media devices used should be integral to the exhibit—not a method to bypass the prohibition against live student involvement
04	Written Material	• Five copies of your title page, process paper, and annotated bibliography need to be prepared for all stages of activities. • They should be presented to the judges for review. • Refer to Part III, Rules 12-17, for requirements of Written Material.

Participation Process



2. Performance

A performance is a dramatic portrayal of your topic's significance in natural science and must be an original production. It should be scripted based on research of your chosen topic and should have dramatic appeal, but not at the expense of natural science information.

01	**Time Requirements**	• Performances may not exceed 8 minutes in length. Timing starts at the beginning of the performance following the announcement of the title and student names (see 02 below). • Any forms of opening remarks are considered as parts of performance and accounted within 8 minutes. • You will be allowed 3 minutes to set up and three minutes to remove any props needed for your performance.
02	**Performance Introduction**	• The code and title of your entry and the names of the participants must be announced first prior to the start of the performance.
03	**Media Devices**	• Use of slides, mp3 players, computers, or other media within your performance is permitted. You must provide and run all equipment and carry out any special lighting or sound effects. • The organizers only provide power source and project screen and do not supply any other equipment.
04	**Script**	• The script for the performance should not be included with the written material presented to the judges.
05	**Costumes**	• You may have assistance in producing your costume, but the design, choice of fabrics, etc., must be your own. Or, you may rent a costume. • Remember: appropriate is best
06	**Performers**	• All the live performance, answering judges' questions and operating equipment must be done by participants. No other assistants are allowed to participate.

Kenneth Behring Discovery Trip—South African Kruger National Park

IV. Entry Judging

1. Benefits of the Evaluation Process

GNHD's goal is to provide you with a high-quality, educational experience—whether or not you win a prize. The judges' evaluations are part of the learning and skill-building process of GNHD.

The judges' evaluations help you to improve skills and provide positive feedback for the hard work you have put into producing your project. The judges' comments also can provide you with ideas for revisions and enhancements as you move from one level to the next.

Remember, regardless of how your entry is ranked, by participating in GNHD you will benefit from the experience. You will gain research thinking, and presentation skills that will last your entire life.

You will become an expert on a topic of interest to you and to others. You will learn to manage your time and acquire poise and self-confidence.

Since you are here, you already become a winner!

2.Who are the Judges?

Specialists from educational and science popularization organizations, fully experienced professionals from different fields serve as judges at each stage of GNHD.

3.How does the Evaluation Process Work?

On GNHD Judging day, each category usually is judged by a panel of judges as a whole (3-6 judges).

Judges usually have a meeting, especially in Exhibit category. Judges pre-evaluate exhibit entries in order to review all with a unanimous standard.

4.Consensus Judging

Every judge reviews every entry based on 10 items of 3 aspects. Then GNHD staff calculate scores. GNHD committee suggests judges to re-check scores after judging to ensure the accuracy.

5.The Subjective Nature of Judging

Judges must evaluate certain aspects of your entry that are objective (e.g., reference sources used). But judges also must evaluate interpretive aspects of your entry that are subjective in nature (e.g., analysis and conclusions made by your team etc.).

Scientists often reach different opinions about the significance of the same fact. It is therefore crucial for you to base your interpretations and conclusions on solid research.

Judges will compare your Written Material and entry to determine whether you appropriately used available sources, and whether you were careful to examine all sides of an issue and present a balanced account of your research and presentation.

Your process paper and annotated bibliography are critical to this process.

6. The Judges' Decisions are Final

You, your parents, and your teachers should realize that inadvertent inequities may occur in judging and that GNHD organizers do want to be informed of any problems. If you have a concern, ask GNHD office in your region about the correct process. The decision of the judges is final if no special circumstances.

7. Evaluation Criteria

1) Natural Science Quality (60%)

The most important aspect of your entry is its natural science quality. You should ask yourself the following questions to help you focus on your natural science analysis：

a) Is the entry natural scientifically accurate? Is it deviated to Humanity, History or Social Science?

b) Does my exhibition/presentation demonstrate wide research of my topic rather than draw conclusions from limited materials?

c) Does my entry demonstrate an understanding of natural scientific context?

d) Does my entry provide the analysis and interpretation of your own rather than only quoting others' opinions?

e) How well does my entry demonstrate effective use of resources combined with Written Material?

f) How well does my entry demonstrate a balanced and comprehensive research content of the topic? Rather than concluding subjectively right or wrong?

2) Relation to theme (20%)

Your entry must explain clearly the relation of your topic to the annual GNHD theme. You should ask yourself the following questions to help focus your topic on the theme and its significance.

a) How does my topic relate to the theme?

b) Why is my topic important?

c) How is the significance of my topic in nature related to the GNHD theme?

d) What impact did the species or phenomenon of my topic have on nature?

e) How did events and atmosphere (social, economic, political, and cultural aspects) influence the species or phenomenon I have selected as my topic?

3) Clarity of Presentation (20%)

Although natural science quality is most important, your entry must be presented in an effective manner. You should ask yourself the following questions to help you focus on your presentation.

a) Is my entry original, creative, and imaginative in content and presentation?

b) Is my Written Material clear, grammatically correct, and accurately spelled?

c) Is my entry well-organized in planning contents?

d) Do I display stage presence and artistic acts in a performance?

e) Do I express myself clearly and fluently?

8. Rule Appliance

Judges will take any rule infraction into consideration in their final rankings. Failure to comply with the rules will count against your entry. Rule infractions should be corrected before a winning entry competes in the next level of Judging..

9. Sample Evaluation Form

Sample Evaluation Form can be downloaded from GNHD website. Your team can evaluate your entry according to this in order to improve the entry (Figure 07).

Figure07

GNHD™ 2015
Global Natural History Day
Judging Criteria

EXHIBIT

Entry Code | | | | | | – | | | | |

Note: Content below the line shall be filled in by staff only.

JUDGING CRITERIA*	EVALUATION (✓) Superior / Excellent / Good / Needs Improvement							COMMENTS
Natural Science Quality (60%)	10	9	8	7	6	5	4	
Natural scientific accuracy								
Wide research								
Natural scientific context								
Analysis and interpretation								
Effective use of sources								
Balanced research								
Relation to Theme (20%)	10	9	8	7	6	5	4	
Clearly relates to theme								
Demonstrates significance of topic in natural science and draws conclusions								
Clarity of Presentation (20%)	10	9	8	7	6	5	4	
Presentation and written materials are clear, appropriate, and organized								
Exhibit is creative and original, and has visual impact								

Rules Compliance	Yes	No	
Maintain word limit (1200 words)			Violation of any rules will deduct 2 points
Maintain size requirement (W100*D75*H180, R75, Unit: cm)			
Exhibit title is clearly visible and same as that in Written Material			
Written Material is detailed with clear annotated bibliography			

Judge's Signature

*see *Rule Book* for judging criteria

GNHD™ 2015
Global Natural History Day
Judging Criteria

Performance

Entry Code | | | | | | – | | | | |

Note: Content below the line shall be filled in by staff only.

JUDGING CRITERIA*	EVALUATION (✓) Superior / Excellent / Good / Needs Improvement							COMMENTS
Natural Science Quality (60%)	10	9	8	7	6	5	4	
Natural scientific accuracy								
Wide research								
Natural scientific context								
Analysis and interpretation								
Effective use of sources								
Balanced research								
Relation to Theme (20%)	10	9	8	7	6	5	4	
Clearly relates to theme								
Demonstrates significance of topic in natural science and draws conclusions								
Clarity of Presentation (20%)	10	9	8	7	6	5	4	
Presentation and written materials are creative, original, clear, and organized								
Performers show good stage presence, and the appreciation of art								

Rules Compliance	Yes	No	
Maintain time limit (< 8 minutes)			Violation of any rule will deduct 2 points
Numbers of performers as required			
All equipment are run by team members			
Written Material is detailed with clear annotated bibliography			

Judge's Signature

*see *Rule Book* for judging criteria

10. Copyright

1) The use of copyrighted material for your project falls under the Fair Use doctrine, which identifies educational use for non-commercial purposes as acceptable with certain limitations:

(1) Every team should grant GNHD™ right to publish their entries in books, on disks, and in journals & magazines.

(2) The entries could be put on website for students' learning purpose.

(3) GNHD™ has the right to publish the entries on media (television, newspaper, journals and the Internet) for students' learning purpose.

2) You should not place your project in a non-academic public setting, such as a commercial Internet site, without obtaining permission from the copyright owner.

11.Prohibited matters

1)Entry contents are prohibited from violating national laws and regulations, social morals or public benefits.

2) Entry contents should accord with the principle of protecting environments, objects and biology in the process of creation and presentation. No behaviors are allowed to be against humanism.

V. Category Checklist

1. Exhibit

1)Size requirements：100cm wide, 75cm deep, and 180cm high; All kinds of shapes are required to meet this standard.

2)Electronic copy of Written Material is submitted online by clicking “Entry Confirmation”; 5 paper copies of Written Material are checked and submitted on Check-in Day before Judging.

3)Entry topic has accurate quality of natural science and is closely related to the annual theme.

4)Entry title is obvious and clear.

5)All kinds of text presented in Exhibit entry are required to be no more than 1200 words (including that in media devices)

6)Exhibit is educational and has visual impact.

7)You must complete “Registration” , “Entry Confirmation” and other procedures before every required deadline.

8)You must bring “Confirmation Sheet” and ID (original or photocopy) on each round of judging.

9) You must prepare to answer judges’ questions.

2.Performance

1) Performance is required to be no more than 8 minutes.

2) You will be allowed 3 minutes to set up and 3 minutes to remove any props needed for your performance.

3) Electronic copy of Written Material is submitted online by clicking “Entry Confirmation”; 5 paper copies of Written Material are checked and submitted on Check-in Day before Judging.

4) Entry topic has accurate quality of natural science and is closely related to the annual theme.

5)Your team must prepare your own equipment and instruments, and operate them.

6) You need to prepare extra facility in case of emergency.

7) You must complete “Registration” , “Entry Confirmation” and other procedures before every required deadline.

8) You must bring “Confirmation Sheet” and ID (original or photocopy) in each level of judging.

9) You must prepare to answer judges’ questions.

10)Your performance script is not required to submit to judges.

Kenneth Behring, Founder of GNHD and team from Hawaii

GNHD 2015
Theme Logo

VI. Participation Guidelines

1. Annual Theme

Nature’s Great Events

Welcome to Global Natural History Day (GNHD), a world to learn Natural Science. For GNHD2015, the annual theme is Nature's Great Events. You can select your topic from any aspect of regional, national, or world beyond the space and time limitation.

Comparing to GNHD 2014, the 2015 GNHD annual theme has removed the subheading annotation, which means that you have much more space to explore. But remember that your research and conclusions must be clearly related to the annual theme.

If you understand 'Events' literally, you maystart from the following two points to choose your topics.

The Cambridge Dictionary defines 'Event' as 'anything that happens, especially something important or unusual'

Unfolding the timeline of Earth, nature's great events can be found everywhere! At the transition point on Earth's timeline, it is full of nature' great events.

From the beginning of Earth 4,600 million years ago, all kinds of events occurred along with the destiny of Earth and interact with Earth.

3,800 million years ago, how did the initial life forms emerge on earth? From cyanobacteria Gradual evolution, or life forms carried by aerolites from outer space? What kind of conditions did the ocean provide for life forms?

65 million years ago, how did dinosaurs become extinct? What chain effects were caused by an asteroid striking Mexico Yucatan? Climate change? Earth's magnetic field change? And what role did Oxygen play in this event?

8 million years ago, how had grass rapidly grown and taken up the territory of forest which brought huge change to animals’ survival environment? How did this relate to the birth of human being? How did this accelerate the rapid evolution of marine organism?

Let us look at nature’s great events nowadays to find which topics can be researched.

Global Natural History Day 29

Upon the beginning of every spring, more than 500 million salmon in Pacific Ocean start a journey of about 5 thousand miles to return to their birthplace in order to reproduce. Salmon acquire Nitrogen, Carbon and Phosphorous from the sea, store these elements inside their bodies, and ultimately release them in temperate rain forests from British Columbia up to Alaska. This not only provides food for millions of animals, but also builds a chain connecting forests and sea.

What are the reasons that make their migration full of difficulties? Also which of their functions created by millions of years of evolution help them upstream? Researching this 'nature's great event' in the west coast of North America will help you know more about the relationships between animals, plants and the environment.

In the Arctic Ocean during summer, along with melting ice, beings within 3 million square miles come back to life. The best season of a year arrives for numerous species.

Arctic foxes endure long winter by eating moss. But they can hunt to the fullest when the big melting comes, which brings bird population reproduction. However, for arctic lives especially polar bears, excessive warmth is not a good turn. The mass melting of floating ice degrades the living conditions of polar bears, even threatens its survival.

Meanwhile, millions of animals' survival on the Serengeti Prairie and life on the 15 thousand square miles Okavango Delta, lies on whether the airstream over the African Savanna brings rain on time or not.

When we are talking about climate's impact on people's life, there is an 'Event' that cannot be overlooked——'Tropical Cyclone'. Its energy motion has destructive influence on humans and society. However, another airstream has very different impact.

Every year along with warm airstream moving from south to north, florescence of plants begins in turns. Luoping and Wuyuan in China are famous for their rape flowers, and Japan has well-known 'Sakura frontline'. Bees dancing among flowers can be one of the spokesmen in Nature's Great Events.

Behind these great nature's events, those stories about extinctions or continuance, and those revealed or hidden phenomena are remarkable for our research and consideration.

Comprehensive understanding, focused research, enriching your opinions with full materials, expressing a clear topic in an eye-catching way, those are what GNHD expects you to achieve. Walking out of classrooms and stepping into museums, libraries, zoos, botanic gardens, fields, you will find nature is much more beautiful and colorful than you imagine!

2.Sample of Written Material

Global Natural History Day 2015
环球自然日-青少年自然科学知识挑战活动 2015

Written Material

Title Page

Entry Code					–				

Entry Title	

Division	**Junior** ☐ Grade 2-6 (China, United States, South-Korea, Taiwan) Prathom 2-6 (Thailand) Primary School 2-6 (UK, Hong Kong, Singapore) 小学校 2-6 (Japan) **Senior** ☐ Grade 7-12 (China, United States, South-Korea, Taiwan) Matthayom 1-6 (Thailand) Secondary School 1-6 (UK, Hong Kong, Singapore) 中学校 1-3 & 高等学校 1-3 (Japan)

Category	Exhibit ☐ Performance ☐ （Please select）

Stage	Regional Semifinals ☐ Global Finals ☐ （Please select）

Guidelines

1) Please print all materials.

2) You must bring five copies of this packet (Written Material, Process Paper, Annotated Bibliography) on the day of your contest.

2.Sample of Written Material

Global Natural History Day 2015
环球自然日-青少年自然科学知识挑战活动 2015

Process Paper

(This page is limited to 1200 words)

1. How did you choose your topic?
2. How did you conduct your research?
3. How did you select your entry category and create your project?
4. How does your project relate to GNHD annual theme?

2.Sample of Written Material

Global Natural History Day 2015
环球自然日-青少年自然科学知识挑战活动 2015

Annotated Bibliography

List only those sources that contributed to the development of your entry; sources that provided usable information or new perspectives in preparing your entry.

Book:
Author, *Title of the book*, (publisher & year) page.

Author	*Title of the book*	(Publisher, Year)	Page
Annotation:			
Annotation:			

Example (fictional):

Bryan Witsberger	*Tigers in the world*	(Goldsmidt, 2012)	100-135
Annotation: The author, the director of the museum of Natural History in London, has used a large array of sources and other materials to write a book solely devoted to tigers. This book clearly shows what kind of tigers there are, where they live and how many there are left in each region. This book helped me to get a clear idea of the world of tigers in general and provided specific information about the Siberian tiger.			

Journal/Newspaper:
Author, "Title of the article", *Name of Periodical/Newspaper*, (Year, edition/Year-month-day) page.

Author	Title of Article	*Name of Periodical/Newspaper*	Journal: (Year, edition) Newspaper: Year-month-date	Page
Annotation:				
Annotation:				

Example (fictional):

Clark Toby	"The digital eye of the Tiger"	*Tiger Periodical*	(2011, 9)	10-15
Annotation: The author, a researcher at the VIA University, uses data from fieldwork in the Primorye province, Russia, to show that this species is endangered. Besides giving information, Toby also shows how we can use modern technology in protecting this special animal from extinction. His conclusions were helpful in thinking about future protection of the Siberian tiger in eastern Russia.				

3. Sample of Evaluation Form - Exhibit

GNHD™ 2015
Global Natural History Day
Judging Criteria

EXHIBIT

Entry Code					–				

Note: Content below the line shall be filled in by staff only.

JUDGING CRITERIA*	EVALUATION (✓) Superior / Excellent / Good / Needs Improvement						
Natural Science Quality (60%)	10	9	8	7	6	5	4
Natural scientific accuracy							
Wide research							
Natural scientific context							
Analysis and interpretation							
Effective use of sources							
Balanced research							

Relation to Theme (20%)	10	9	8	7	6	5	4
Clearly relates to theme							
Demonstrates significance of topic in natural science and draws conclusions							

Clarity of Presentation (20%)	10	9	8	7	6	5	4
Presentation and written materials are clear, appropriate, and organized							
Exhibit is creative and original, and has visual impact							

Rules Compliance	Yes	No	
Maintain word limit (1200 words)			Violation of any rules will deduct 2 points
Maintain size requirement (W100*D75*H180, R75, Unit: cm)			
Exhibit title is clearly visible and same as that in Written Material			
Written Material is detailed with clear annotated bibliography			

*see *Rule Book* for judging criteria

COMMENTS

Judge's Signature

3. Sample of Evaluation Form - Performance

GNHD™ 2015
Global Natural History Day
Judging Criteria

Performance

Entry Code					–				

Note: Content below the line shall be filled in by staff only.

JUDGING CRITERIA*	EVALUATION (✓) Superior / Excellent / Good / Needs Improvement						
Natural Science Quality (60%)	10	9	8	7	6	5	4
Natural scientific accuracy							
Wide research							
Natural scientific context							
Analysis and interpretation							
Effective use of sources							
Balanced research							

Relation to Theme (20%)	10	9	8	7	6	5	4
Clearly relates to theme							
Demonstrates significance of topic in natural science and draws conclusions							

Clarity of Presentation (20%)	10	9	8	7	6	5	4
Presentation and written materials are creative, original, clear, and organized							
Performers show good stage presence, and the appreciation of art							

Rules Compliance	Yes	No	
Maintain time limit (< 8 minutes)			Violation of any rule will deduct 2 points
Numbers of performers as required			
All equipment are run by team members			
Written Material is detailed with clear annotated bibliography			

*see *Rule Book* for judging criteria

COMMENTS

_____

_____

_____

_____

Judge's Signature

_____

4. Sample of Confirmation Sheet – Regional Selection

Global Natural History Day 2015

Regional Selection International Division

Confirmation Sheet

Entry Code								
				-				
Division				Category				
Entry Title								

QR code
Including team members' personal information

- In order to make entry meet the requirements, please refer to GNHD website for more helpful materials. www.gnhd.org
- On the Check-in Day for Regional Selection, bring your ID (original or photocopy) and a copy of this Confirmation Sheet with you, to confirm all confirmation.
- On the Check-in Day, five printed copies of your Written Material must be ready. The title of your project on the Written Material must be the same as the title on your project. Please hand in the printed copies of the Written Material on the Check-in Day. We will hand it to the judges.

Click here to download this confirmation sheet

4. Sample of Confirmation Sheet – Global Finals

Global Natural History Day 2015

Global Finals (Shandong) International Division

Confirmation Sheet

Entry Code								
				-				
Division		Category						
Entry Title								

QR code
Including team members' personal information

- Please bring your ID (original or photocopy) and a copy of this Confirmation Sheet with you on the day you check in for the Global Finals in Shandong.
- On the Check-in Day, an GNHD Passport with your team's entry code will be made. Please bring two passport photos with you for on the GNHD Passport. It is only possible to participate in the competition with an GNHD Passport.
- Please prepare five printed copies of your Written Material. The title of your project on the Written Material must be the same as the title on your project. Please hand in the printed copies of the Written Material on the Check-in Day. We will hand it to the judges.

Click here to download this confirmation sheet

Website: www.gnhd.org

Hotline: 86-21-60937858

QQ: 2540408087

Wechat: GNHDay

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Know more information

A Discovery program, named after Founder of Global Natural History Day Mr. Kenneth Behring, is designed for bringing you to appreciate Nature's beauty

Kenneth Behri.

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20 Trip — South ca

20 Trip — New Z and

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Zhejiang Museum of Natural History 1F

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Chongqing New Museum of Natural History 1F

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