MYSTICLAND IN SCHOOL

GRADE 5

GENERAL KNOWLEDGE

PROJECT GUIDE

Dear Teacher,

This is a collection of five interesting projects with respective rubrics that can be given out to learners during their MysticLand General Knowledge programme. They have been put together under the guidelines of NEP 2020.

Please note that projects are not compulsory for completion of the course. If as a school, your preference is to conduct test-based assessments, question banks are a part of your Teacher Tools Google Folder. If you would prefer a project-based assessment, this guide will be useful.

PROJECT TITLES FOR GRADE 5

1. **India's Natural Wonders!** (Research-based)
2. **Indian Women's Wall of Fame** (Research-Based)
3. **Greatest Inventor of All Time** (Research-Based)
4. **The Importance of Pollinators** (Research-Based and Creative)
5. **Which Doctor Would You Like to Become?** (Research-Based and Creative)

Project Title #1: India's Natural Wonders!

Chapter: Seven natural wonders of the world

Project Type

☐ Hands-on Activity ☑ Research-Based ☐ Creative

Objective

Encourage students to research and explore a natural wonder in India, learning about its geography, history, and significance.

Instructions

Introduction:

- India is home to breathtaking natural wonders, from towering mountains to beautiful lakes and mysterious caves. Let's research and present one of these beautiful places!

Task:

- Choose one natural wonder in India. To help you, a few examples have been given below. You may choose a natural wonder outside this list, too.
  - ✔ Lonar Crater Lake
  - ✔ Loktak Lake
  - ✔ Marble Rocks and Dhuandhar Falls
  - ✔ Borra Caves
  - ✔ Valley of Flowers
  - ✔ Barren Island Volcano
  - ✔ Sundarbans Mangrove Forest

- Research and write a detailed report about the chosen wonder, covering:
  - ✔ Location and geography.
  - ✔ How it was formed (eg, volcanic eruption, meteor impact, etc).
  - ✔ Why it is unique.
  - ✔ One fun fact.
  - ✔ Draw or stick a photo of the landmark.

- Bonus activity: Find out if the natural wonder is at risk due to climate change or human activities and suggest ways to protect it.

Materials Needed:

- Chart paper
- Pens, markers
- Crayons or coloured pencilst
- Pair of scissors and glue (if sticking a photo)

Research Pointers:

- Find out why this place is considered a natural wonder.
- What special features does it have?
- Do other countries have a similar natural wonder?

Creative Guidelines:

- Make your factsheet as colourful as possible.
- You can label the special features of the natural wonder.
- Highlight if this natural wonder is made of any special rock or soil.

Expected Outcome

A well-researched factsheet about one of India's incredible natural wonders, explaining its history, geography, and importance.

Evaluation Criteria

- ✔ Well-researched and factual
- ✔ Clear and structured writing
- ✔ Neat and well-organised presentation

Submission Format

- ✔ Written factsheet on a chosen Indian natural wonder

Project Title #2: Indian Women's Wall of Fame

Chapter: Women who changed the world

Project Type

☐ Hands-on Activity ☑ Research-Based ☐ Creative

Objective

Encourage students to learn about inspiring Indian women and their contributions.

Instructions

Introduction:

➨ Many Indian women have changed history in fields like science, sports, politics, and space exploration. Let's celebrate them by creating a Wall of Fame!

Task:

➨ Research and choose one inspiring Indian woman (eg, Kalpana Chawla, Indira Gandhi, Mary Kom, Kiran Bedi, and so on).

➨ Create a poster with:

- ✔ A drawing or printed picture of her
- ✔ Her birthplace and birthdate
- ✔ Her achievements
- ✔ Why she is an inspiration

➨ Bonus Activity: Research and write a famous quote from her.

Materials Needed:

➨ Chart paper
➨ Crayons or coloured pencils
➨ Glue and stickers

Research Pointers:

➨ Why did you choose this particular Indian woman?
➨ What has she contributed to India?
➨ Are there more Indian women in the same field?

Creative Guidelines:

➨ Make your poster as impactful as possible.
➨ Add enough important facts to help everyone understand this woman.
➨ You could stick this poster in your bedroom or classroom.

Expected Outcome

A poster celebrating an inspiring woman from India with key achievements.

Evaluation Criteria

✔ Well-researched and factual
✔ Clear and neat presentation
✔ Effort and creativity

Submission Format

✔ Poster of an inspiring Indian woman

Project Title #3: Greatest Inventor of All Time

Chapter: Wizards from the world of science

Project Type

☐ Hands-on Activity ☑ Research-Based ☐ Creative

Objective
Encourage students to learn about a famous inventor and their contributions to the world.

Instructions

Introduction:
- Many inventors have changed the world with their discoveries! From Thomas Edison (light bulb) to Marie Curie (radioactivity), their work shaped modern life. Let's explore one inventor in depth!

Task:
- Choose one famous inventor (eg, Thomas Edison, Marie Curie, Nikola Tesla, Dr APJ Abdul Kalam, and so on).
  - ✔ Draw or stick a photo of your inventor
  - ✔ Mention their birthdate, birthplace
  - ✔ List their major discoveries or inventions

- Write a detailed report on:
  - ✔ What problem their invention solved
  - ✔ The story behind a particular invention
  - ✔ One interesting fact about them
  - ✔ A quote by your inventor

- Bonus Activity: Find out how their invention has improved over time (eg, early light bulbs vs. modern LEDs)

Materials Needed:
- Chart paper
- Markers, stickers
- Pair of scissors and glue (if sticking a photo)

Research Pointers:
- Understand the life of your inventor.
- Did they excel in fields other than science?
- Do we still use their inventions today?

Creative Guidelines:
- Make your poster as detailed as possible.
- Highlight the section about inventions.

Expected Outcome
A factsheet explaining an inventor's life and work.

Evaluation Criteria
- ✔ Well-researched and factual
- ✔ Clear and structured writing
- ✔ Neat and creative life events representation

Submission Format
- ✔ Written factsheet of one inventor and their inventions

Project Title #4: The Importance of Pollinators

Chapter: All about insects

Project Type

☐ Hands-on Activity ☑ Research-Based ☑ Creative

Objective

Teach students how bees, butterflies, and other insects help pollinate plants and why they are essential. Create a poster or bookmark to spread awareness about the importance of saving pollinators.

Instructions

Introduction:

- Pollinators like bees, butterflies, and bats help plants grow by transferring pollen. Without them, many fruits and flowers would not exist!

Task:

- Choose any one pollination hero and research:
  - ✔ How they carry out pollination.
  - ✔ Which plants do they pollinate?
  - ✔ What would happen if this pollinator disappeared?

- Create a poster or bookmark
  - ✔ Draw or stick a photo of your pollination hero.
  - ✔ Add a tagline on the importance of saving pollinators.
  - ✔ Write two points on why we need to protect pollinators.

- Bonus activity: Find out how human activities are harming your chosen pollination hero.

Materials Needed:

- A4 sheet of paper for factsheet
- Pen to write
- Chart paper to make poster or bookmark
- Markers, crayons or coloured pencils
- Pair of scissors and glue

Research Pointers:

- Understand how pollination takes place.
- Learn how many plants of the world depend on pollination.
- Learn which plants grow only because of pollination.
- How does your pollination hero help nature?

Creative Guidelines:

- Create a neat report.
- Add a few fun facts about your pollination hero.
- Make your poster or bookmark colourful with an impactful message.

Expected Outcome

A fact-based project explaining the role of pollinators in nature and a poster or bookmark to spread awareness about the importance of saving pollinators.

Evaluation Criteria

- ✔ Well-researched information
- ✔ Clear explanation of pollination and the pollinator's role
- ✔ Well-crafted poster and bookmark with a clear message

Submission Format

- ✔ Written report and a poster or bookmark

Project Title #5: Which Doctor Would You Like to Become?

Chapter: All about doctors

Project Type

☐ Hands-on Activity ☑ Research-Based ☑ Creative

Objective

Help students understand different medical professions and imagine their future as doctors. Students must also create a name card for their future clinic desk!

Instructions

Introduction:

- Doctors specialise in different fields, such as cardiology, neurology, paediatrics, and dermatology. Each type of doctor helps people in unique ways!

Task:

- Research and choose one type of doctor (eg, heart doctor, brain doctor, eye doctor). Write about:
  - ✔ What this doctor does
  - ✔ Which body parts they treat
  - ✔ What tools they use

- Explain why you want to become this type of doctor.

- Mention a doctor who inspires you- it could be a doctor in your family, your friend's parent, etc

- Create a name card to keep on your clinic desk in the future. It should include:
  - ✔ Your name (eg, Dr. Aditi Sharma, Cardiologist)
  - ✔ Your speciality with a tagline (eg, "Heart Specialist – Taking care of healthy hearts!")
  - ✔ A small symbol or logo (eg, 🖤 for a heart doctor, 🧠 for a neurologist)

- Bonus Activity: Find out what qualifications and studies are needed to become this doctor!

Materials Needed:

- A4 sheet of paper for research report
- Pen for writing report
- Small chart paper to make name card
- Markers, crayons or coloured pencils

Research Pointers:

- Why are there specialist doctors? Why can't all doctors treat all health problems?
- What challenges would your chosen specialist face while treating a patient?
- What kind of problems does your chosen specialist treat?

Creative Guidelines:

- Make your report as detailed as possible.
- Highlight neatly why you wish to become this specialist.
- Make your name card creative and colourful

Expected Outcome
A factsheet on chosen specialist doctor and name card for a future clinic.

Evaluation Criteria
✔ Well-researched information
✔ Clear and structured writing
✔ Creative and accurate name card

Submission Format
✔ Written factsheet on a chosen medical profession and name card for a future clinic