

4th State Level Science and Math Teachers' Congress -2019

My Project on developing and evaluating capacity of
original thinking among students

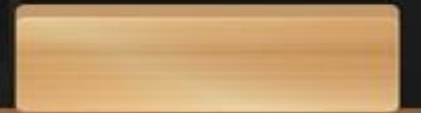
विद्यार्थ्यांमध्ये मूलभूत विचार करण्याची क्षमता विकसित करून तिचे
मूल्यमापन करण्याविषयीचा माझा प्रकल्प

Sub Theme -2 : Designing an Experiment

- Form a group of 3 to 4 students.
- Give each group a subject and ask each group to carry out the experiment.

उपविषय - २ : एखाद्या प्रयोगाची रचना करणे.

- ३ ते ४ विद्यार्थ्यांचा गट तयार करा.
- प्रत्येक गटाला विषय द्या आणि त्यांना प्रयोग करून दाखवायला सांगा.



Enquiry based approach...

- **Structured Enquiry**

Given a problem to solve, the materials with which to solve the problem, and the steps to follow in conducting an experiment.

Expected outcome is unknown.

- **Guided Enquiry**

Given possible problems to investigate, some materials that might be used in the investigation (students may add others).

However, the actual steps to follow in the investigation are not given. Students devise their own experimental design.

Students draw their own conclusions.

- **Open Enquiry**

In this approach, students develop their own questions for investigation based on previous knowledge or discussion. They create hypotheses and design their own methods of investigation.

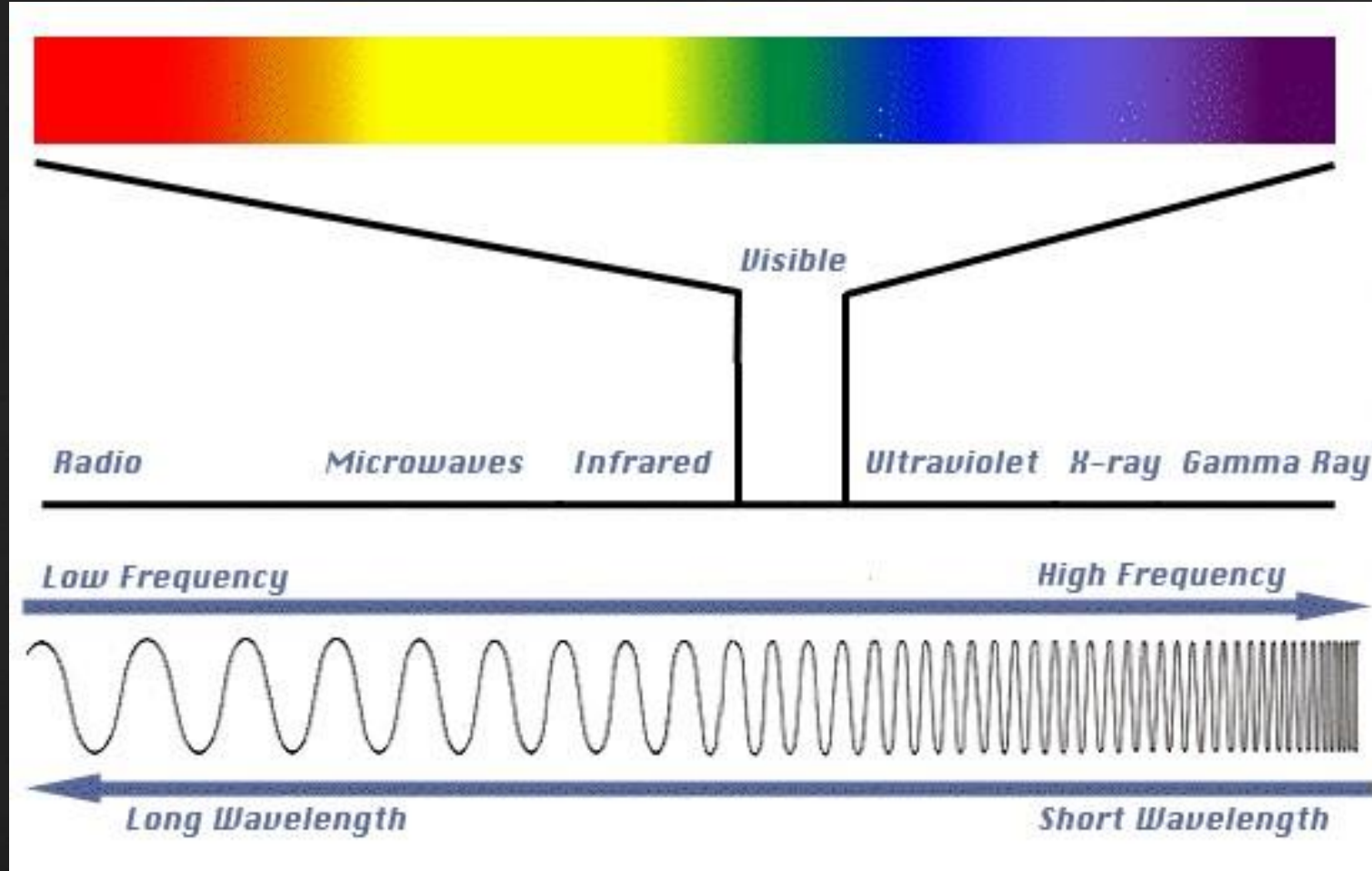


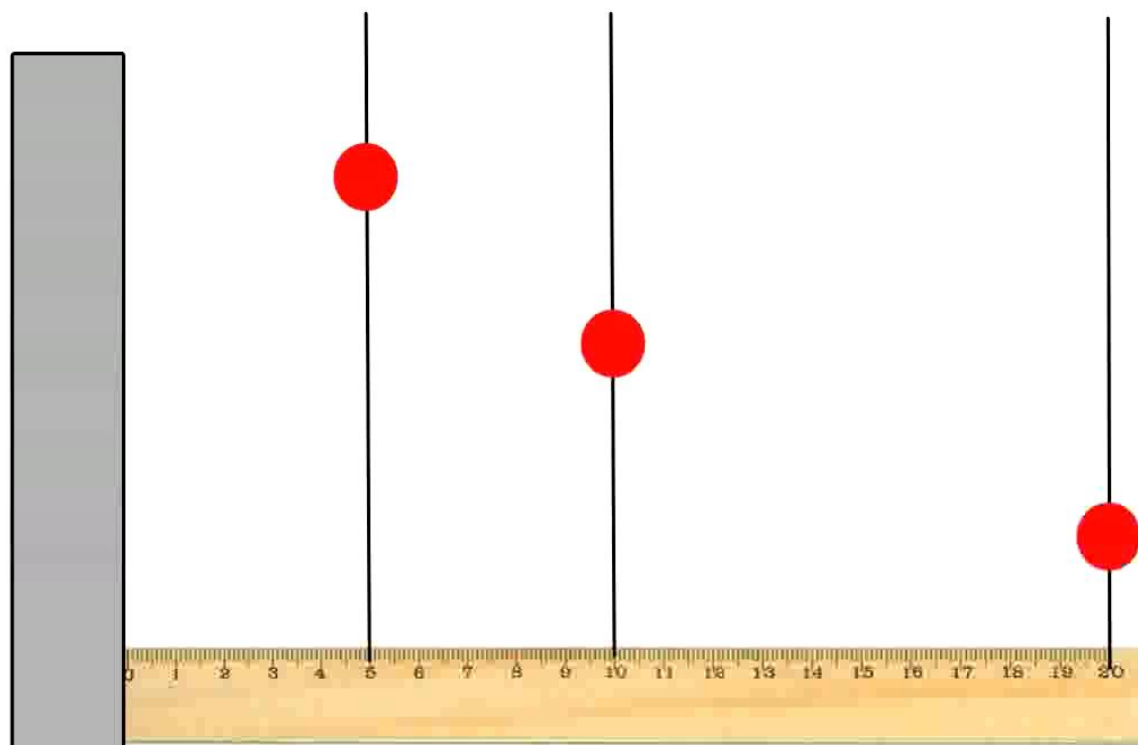
Important and Necessary aspect of your project

Evaluation

- Resourcefulness
- Ability to think logically
- Power of observation
- Ability to work with hands and practicality
- Capability of monitoring one's own work and correcting mistakes
- Persistence
- Ability to troubleshoot
- Ability to work as a team
- Leadership

Electromagnetic spectrum





Thanks!

Will meet in 4th State Level Science and Math Teachers' Congress!

Hemant Lagvankar

www.hemantlagvankar.com

