

# Dates, Progression And Overview of Topics

Dorje Gurung, ScD (h.c.)  
Education Program Director

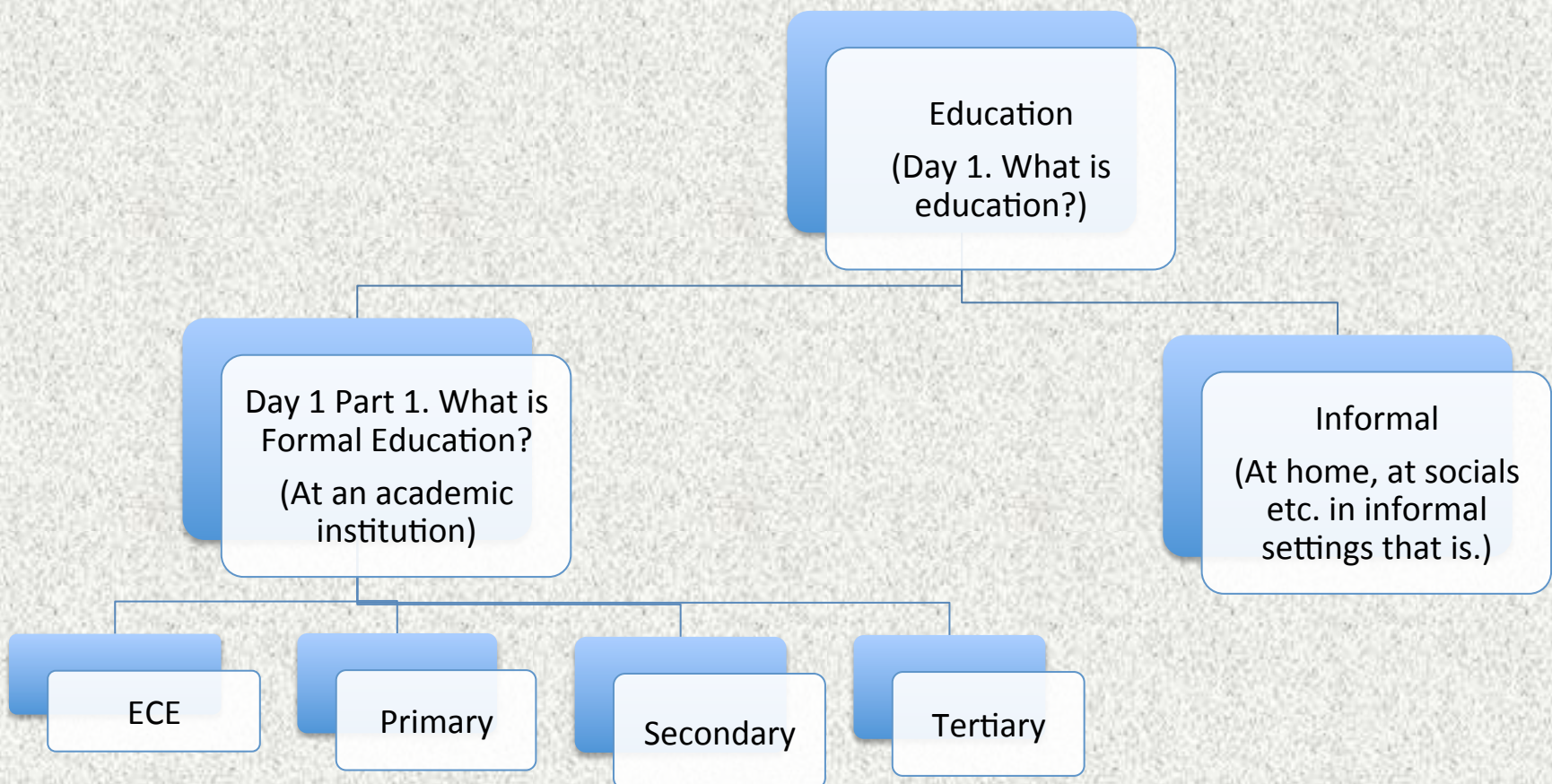


Dorje Gurung



Session	Date
Day 1: What is Education? (Part 1 & 2)	January 12 (3 hours)
Day 2: Science Education (Part 1 & 2)	January 19 (3 hours)
Day 3: Teaching Strategies (Part 1 & 2)	January 26 (3 hours)
Day 4: Model Lessons I	February 2 (2 hours)
Day 5: Model Lessons II	February 9 (2 hours)
Day 6: Model Lessons III	February 16 (2 hours)
Day 7: Evaluation/Assessment	February 23 (2 hours)

Do



Dorje Gurung

Secondary Education  
(Day 1 Part 2. What is  
secondary education?)

Science

Science Literacy.  
Imparting, transferable,  
critical thinking skills, NOT  
just imparting content.

Languages, math, history,  
social studies, etc.

Extra-Curricular

Dorje Gurung

Science Education  
(Day 2. What is Science Education?)

Day 2 Part 1. What is Philosophy of  
Science Education?

What are the components of Science (Subject)  
Education?  
Day 2 Part 2. Curriculum (design)  
Underpins Science or any subject education  
Details of all (why, what and how to teach) that  
which is to be taught/imparted and assessed.

Dorje Gurung

What are the components of Science (Subject) Education? Planning and delivery.

Day 2 Part 2. Curriculum (design)

Underpins Science or any subject education

Details of all (why, what and how to teach) that which is to be taught/imparted and assessed.

Aims and Objectives

Aligned with objective of science education, secondary education goals, and those of national level education goals?

Content

The subject matter.

Day 3. Teaching strategies (Methodology)

(Details of delivery methods of the content and assessment of students.)

Evaluation

So as to improve one's teaching and LEARN from the experience to change, revise and improve.

Dorje Gurung

**Day 3. Teaching strategies (Methodology)**  
(Details of delivery methods of the content and assessment of students.)  
(Strategy in Nepal: Chalk-and-talk!)

**Day 3 Part 1. Lesson Plans: Planning for Success**  
What are the components of a basic lesson plan?

**Day 3 Part 2. Imparting Higher Level Thinking Skills using Open-ended questions.**

**Day 4. Model Lessons**  
Demonstration, investigation, discovery learning, enrichment/challenging problems

**Day 5. Assessment**  
Current assessments methods inadequate.

Dorje Gurung

Day 3 Part 1. Lesson Plans: Planning for Success  
What are the components of a basic lesson plan?

Aims and objective of the lesson: concepts and skills to be imparted.

Details of activities, including a brief recap of the last lesson or the important concepts & skills covered in the last few lessons as relevant.

Basic Timeline

Dorje Gurung



## Day 3 Part 2. Imparting Higher Level Thinking Skills using Open-ended questions.

### Open-ended problems to be tackled:

Funny Funnel

Dancing Coin

Uncanny can

Rubbery Egg

Water Bottle Cannon

Hair Brain Chemistry

The wheels of a bicycle

Dorje Gurung

**Days 4, 5 & 6. Model Lesson Demonstrations**  
How does one impart critical thinking skills in the classroom?

Day 4. Part 1.  
The Burning  
Issue of a  
Candle

Day 4 Part 2.  
Some Light magic  
(The lesson  
demonstration  
where no book is  
used)

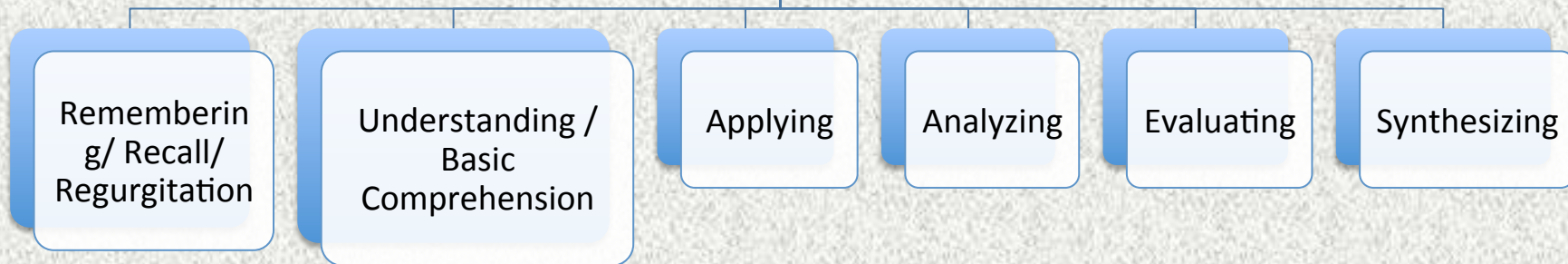
Day 5 Part  
1. Air Fire  
Water

Day 5 Part 2. Mastermind  
A demonstration in the  
process of thinking  
involved in science:  
observing, hypothesizing,  
testing and back to  
observing etc.  
Also, looking at patterns,  
which is what science is all  
about.

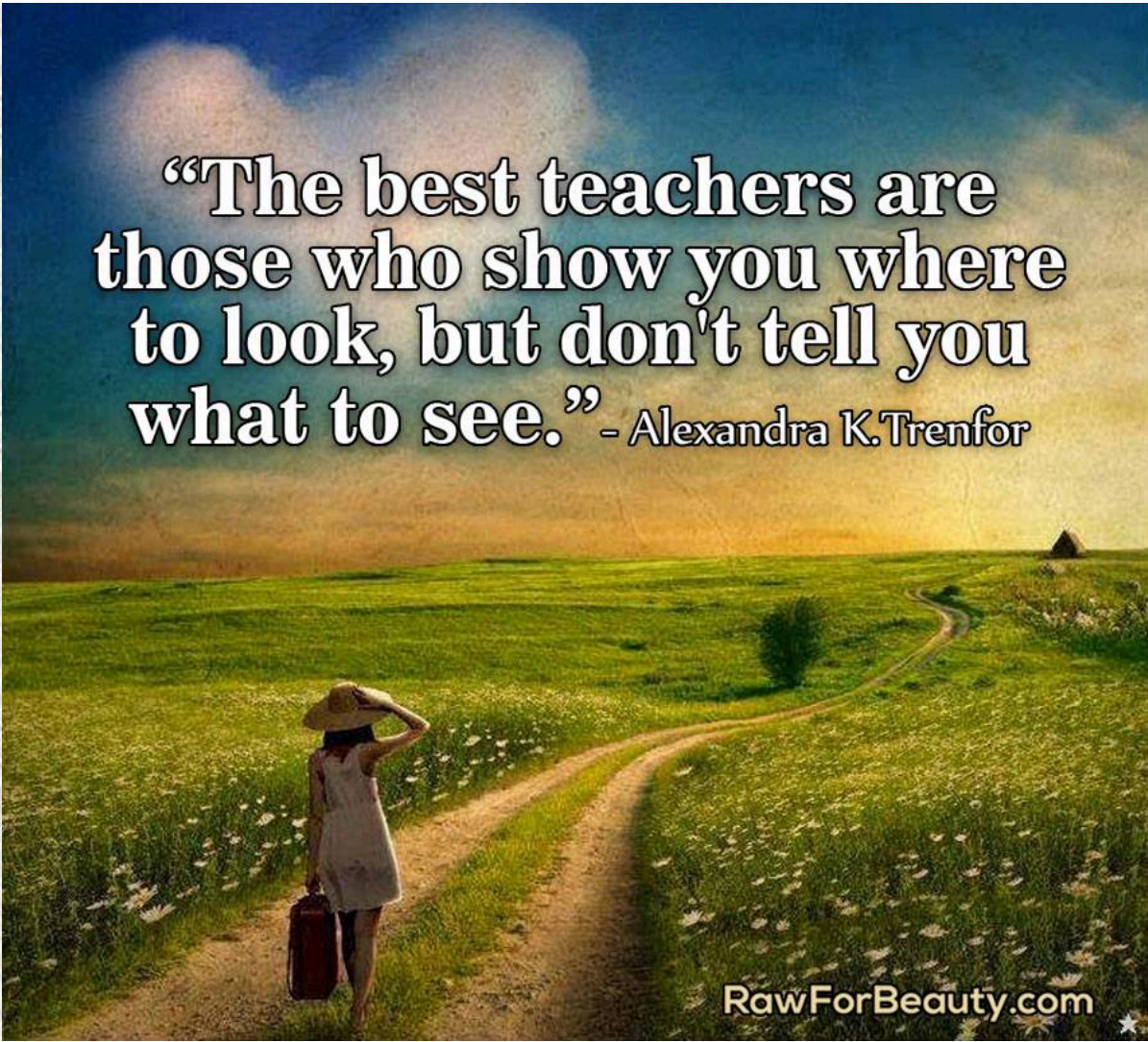
Day 6. Enriching-  
activity based  
demonstration  
Bicycle wheel  
counter, Brainiac  
Science etc.

Dorje Gurung

Day 7. Assessment  
Assessing for success  
Questions and what they assess:



Dorje Gurung



**“The best teachers are those who show you where to look, but don't tell you what to see.” - Alexandra K.Trenfor**

Dorje Gurung



RawForBeauty.com