



Wisrun - a measuring and measurement challenge!



Before you take a seat:
Estimate the content of the two pots.

The numbers will be revisited!



appetizer

What is the content of an average shopping cart?



Any suggestions...



apetizer



What is the maximum speed in this roller coaster?

Any suggestions....



apetizer

Can you cover the width of this room
with tooth paste?



Any suggestions?



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- Create groups of three 3, write your names on the scoring form
- Tablets, smartphones, calculators are NOT allowed
- Start with the marked number on your card and proceed from that number
- When your number is 'occupied', proceed with another task and return later
- Every task is evaluated **immediate** after you produced an answer.
- Good, clear and original explanations get bonus points!
- The jury writes the points on your scoring form
- Reset all equipment after you finished a task
- You will have one hour

Reflections on

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- Estimation requires calculations, reasoning and sketching and the use of familiar reference measurements
- Did you experienced that you can do/use more than you think?

Reflections on

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In the classroom?

Let students experience:

- The need for number sense and mathematics in daily life
- Estimation is not the same as gambling
- The importance and use of reference measures
- The use of dimensions
- Don't be afraid to start calculating/reasoning
- Don't be afraid for (small) errors!
- ...

Reflections on

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Relation with RME?

A diet of 1000 kcal a day, is that a crime?

Can I catch the train?

Can I run half of the marathon within 1 hour?

Does that IKEA box fit in the trunk of my car?

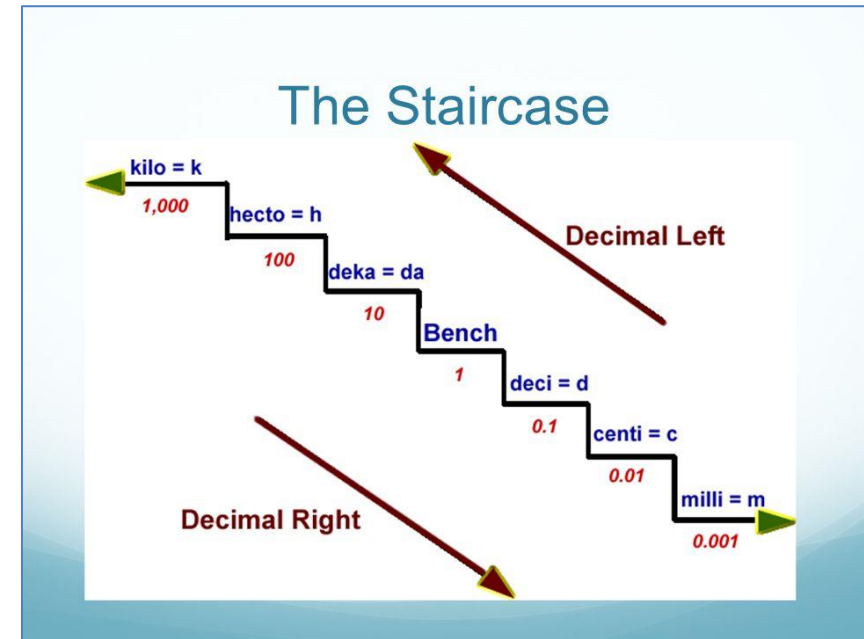
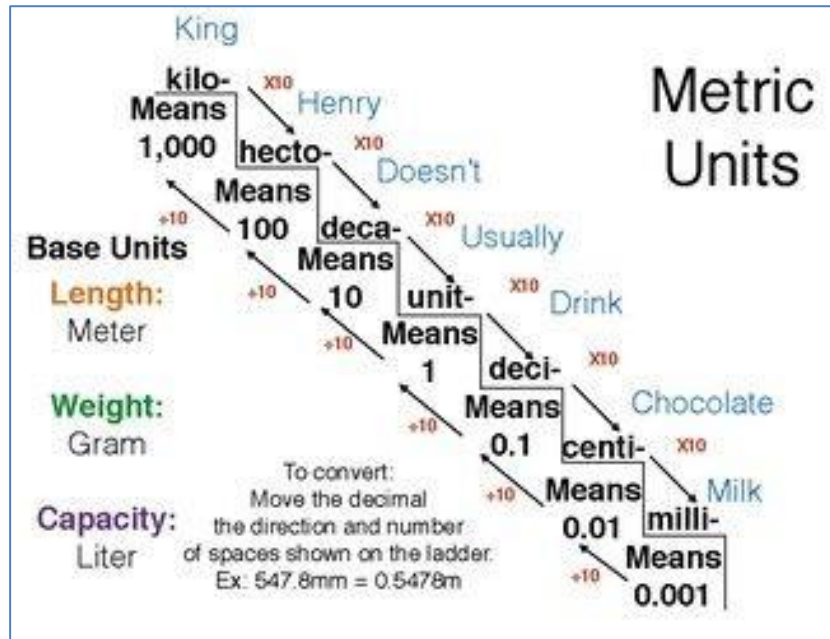
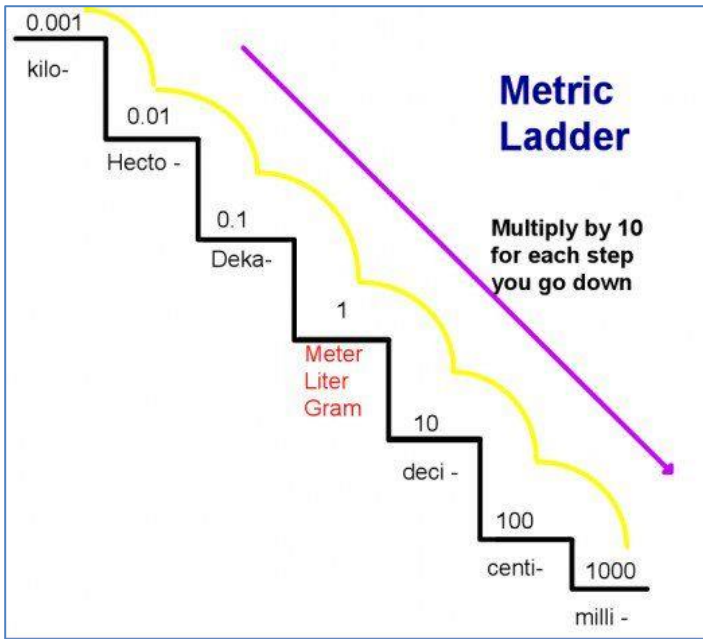
Some sense of measurement is indispensable in daily life

A house with an area of 145 m², is that big?

Do I need a kilo cheese?

How much (drinking) water do I use under the shower?





Reasoning about measurement is more than jumping over a ladder, or moving a decimal point



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Relation with RME?

- Connect learning to daily life experiences and prevent that mathematics becomes an isolated discipline, develop and use meaningful reference measures (reality principle)
- Create an experience base to models, algorithms, ... that makes working with dimensions more meaningful (level principle)
- Stimulate children to reason and to be creative (inter/activity principle)

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- Closed
- No deliberation



- Open
- Deliberation

1. Which estimation had the most extremes?
2. Which will be the best?



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- Closed
- No deliberation

Answer: 800

Average: .. (from-to)



- Open
- Deliberation

Answer: 343

Average: ... (from-to)



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Award ceremony

