

**1. What is our research question?**

Does your weight change if you are in a moving elevator and if so, what is the process of that change?

**2. How does this research fit the theme of the project?**

The Higgs boson provides mass and therefore ensures that you have weight. Your weight is not the same everywhere, but your mass is.

**3. What do we think will be the answer to the research question? And why do we think this will be the answer?**

[Researchers call this a 'hypothesis']

**4. Which persons or what materials are we researching?**

We conduct research into the weight of people in the elevator

**5. What is it that we will measure exactly?**

[Measuring can mean: measuring length, distance or weight.

Measuring can also mean: asking people in your research the same question and comparing the answers.]

We investigate whether people's weight changes when they are standing in a moving elevator.

**6. In what way will we do the measuring?**

[For example with a test, with a question or with interviews]

We're going to do a test. We are going to measure the weight of a person as the elevator moves.

**7. How many times or with how many people do we need to repeat our measuring to really know the answer to the question?**

We'll investigate 30 people.

**8. How will we record the results while we conduct our research?**

[For example: make a table, keep a tally or write down the answers.]

During the investigation we'll record the scale on camera. Later on we'll note the weight for each second in a table.

Naam	1 sec.	2 sec.	3 sec.	4 sec.	5 sec.	6 sec.	7 sec.	8 sec.	9 sec.	10 sec.

**9. What should stay the same in our research and what should change?**

The same: scale, elevator (measurement must always be between the same floors), moments of measurement

Different: speed of the lift

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**10. Make a plan: when will you do the different research activities.**

Activiteit:	Plaats/locatie:	Dag:	Tijd:

**11. What help and which materials do we need?**

- Scale
- Camera
- Elevator
- Table to write down the results

**12. From whom do we need permission, apart from the teacher?**

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**13. Who will do what in preparation and conducting our research?**

Naam:	Taken:	Wanneer af: