



2017-1-SI01-KA201-035523

3DIPhE
Three Dimensions of Inquiry
in Physics Education

Spaghetti Spy Tactics



dr. Andreja Eršte, prof.

Šolski center Novo mesto, Srednja strojna šola
andreja.erste@sc-nm.si

MOTIVATION / MOTIVACIJA

OPEN CONCEPT:
CREATING AN EXPERIMENT



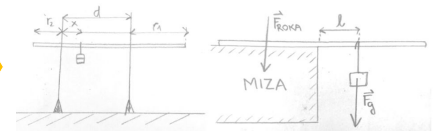
LABORATORIJSKA VAJA
ODPRTEGA TIPA

HOW WILL STUDENTS HANDLE
THE TASK OF DETERMINING
A MEASURING METHOD?



KAKO DIJAKI REŠUJEJO
PROBLEM DOLOČANJA
MERILNE TEHNIKE?

LEARNING FORM
EXPERIENCE



UČENJE NA PODLAGI
IZKUŠENJ

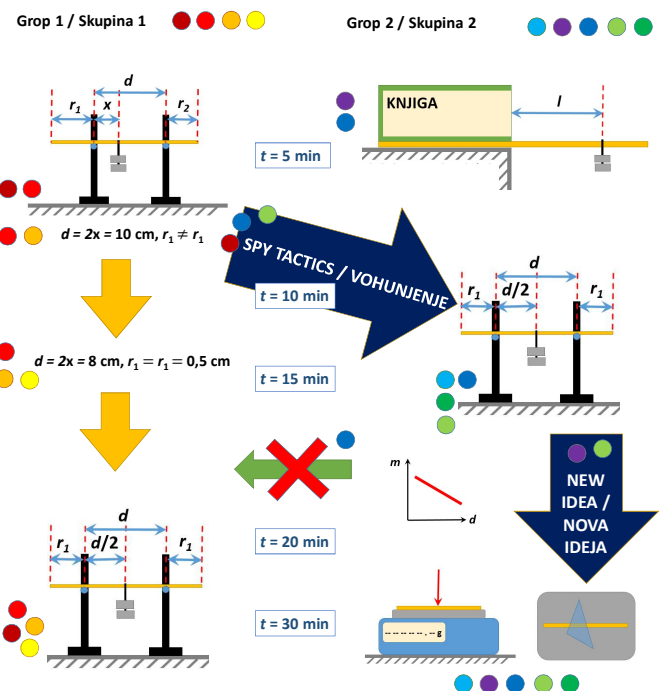
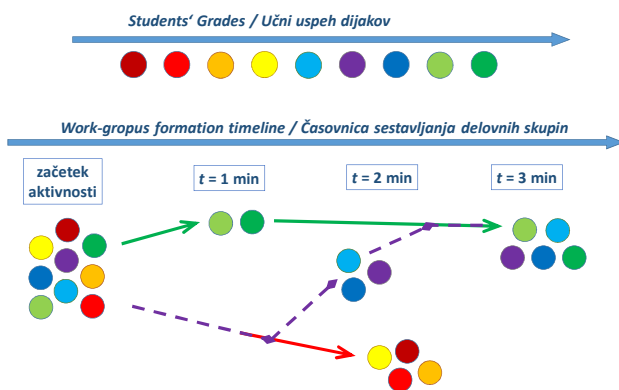
ACTIVITY GUIDE / POTEK AKTIVNOSTI

Problem introduction / Raziskovalno vprašanje:

How can we determine spaghetti solidity? / Kako določimo trdnost špagetov?

Forming work-groups / Sestavljanje skupin

Experimental work / Eksperimentalno delo



Experimental outlines / Ideje laboratorijske vaje



SUMMARY / POVZETEK

- Sophomore students enrolled in mechanical engineering high-school programme participated in the activity.
- Students divided into two groups according to grades, even though grades were not mentioned during class.
- It was interesting to observe information gathering tactics, which included spying (i. e. spy-tactics).
- Students have determined spy-tactics to be acceptable tool for gathering information (they see it as an reflection of current state of industry, and know it from modern media, or films and series).
- Laboratorijsko vajo so izvedli dijaki 2. letnika SSI programa strojni tehnik.
- Dijaki so se v skupini razvrstili po učnem uspehu, kljub temu, da le-tega ni nihče omenjal.
- Zanimivo je bilo opazovati načine, na katere so dijaki pridobili informacije, ena od skupin je za zbiranje informacij uporabila tudi t. i. vohunjenje.
- Za dijake je vohunjenje sprejemljiva taktika dobivanja informacij (odraz situacij v industriji, o katerih berejo v medijih, oz. jih vidijo v filmih ali popularnih serijah).

