STRATEGIES TO DYNAMIZE VIRTUAL CLASSROOMS USING FEMALE ROLE MODELS IN SCIENCE AND TECHNOLOGY

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Universidad a Distancia de Madrid (UDIMA)

IN HIGHER EDUCATION

11th European Conference on Gender Equality in Higher Education

WHY DYNAMIZING VIRTUAL CLASSROOMS USING FEMALE ROLE MODELS IN STEM?

GENDER GAP IN STEM

GENDER STEREOTYPES

LACK OF VISIBILITY OF WOMEN IN STEM





CHALLENGES OF VIRTUAL LEARNING ENVIRONMENTS

ISOLATION

LACK OF MOTIVATION AND ENGAGEMENT

INCORPORATING THE GENDER DIMENSION TO...



NATURAL SCIENCES

DEGREE IN PRIMARY SCHOOL TEACHER TRAINING

TEACHERS' EDUCATION



BIOLOGY AND GEOLOGY COMPLEMENTARY TRAINNING

MASTERS DEGREE IN HIGH SCHOOL TEACHER TRAINING

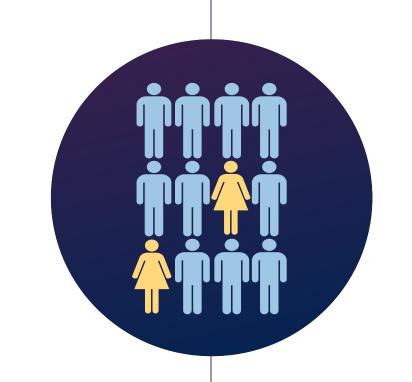
MEDIA PROFESSIONALS'
EDUCATION



RESEARCH IN DIGITAL MEDIA

DEGREE IN JOURNALISM & DEGREE IN PUBLICITY

WHAT DO WE WANT TO ACHIEVE?



TO ENCOURAGE REFLECTION ON GENDER STEREOTYPES AND THE GENDER GAP IN STEM

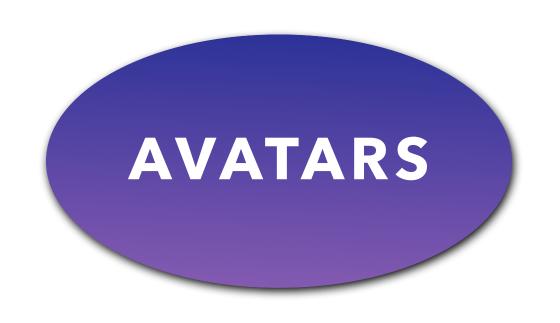
TO GIVE VISIBILITY TO WOMEN IN STEM





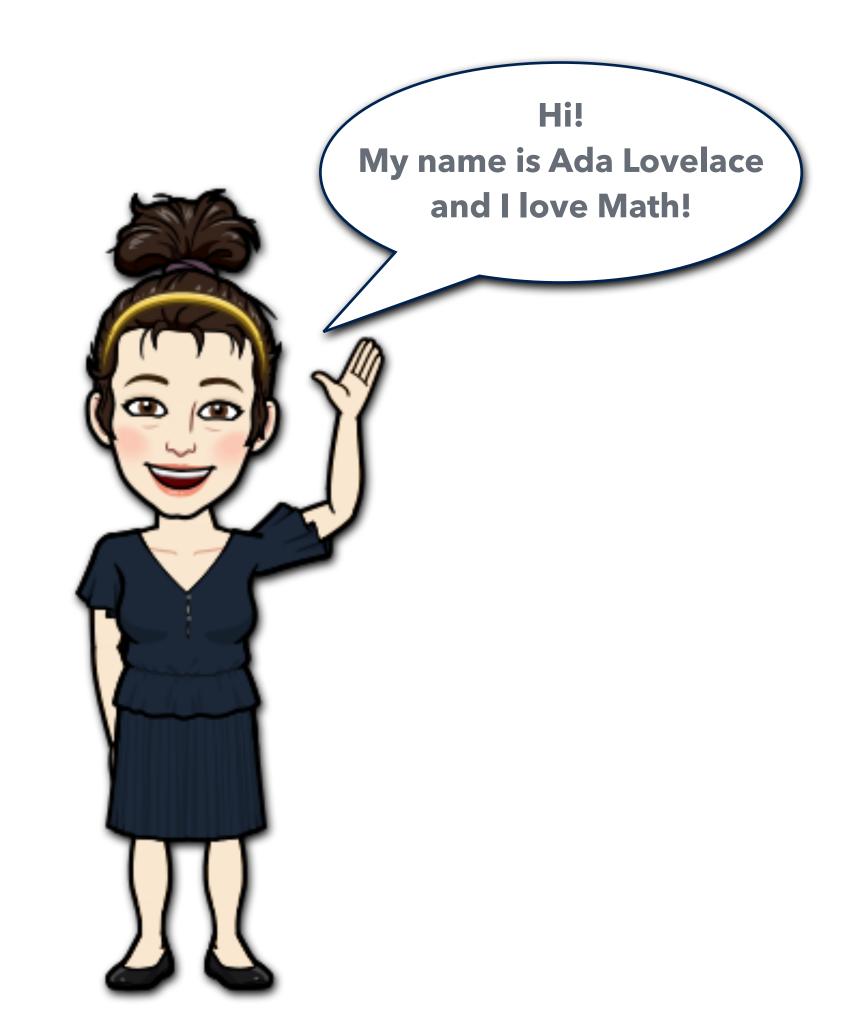
TO BOOST MOTIVATION AND ENGAGEMENT

STRATEGIES USED TO DYNAMIZE THE VIRTUAL CLASSROOM



FEMALE MODELS IN STEM

ENHANCE CLOSENESS & ENGAGEMENT



STRATEGIES USED TO DYNAMIZE THE VIRTUAL CLASSROOM







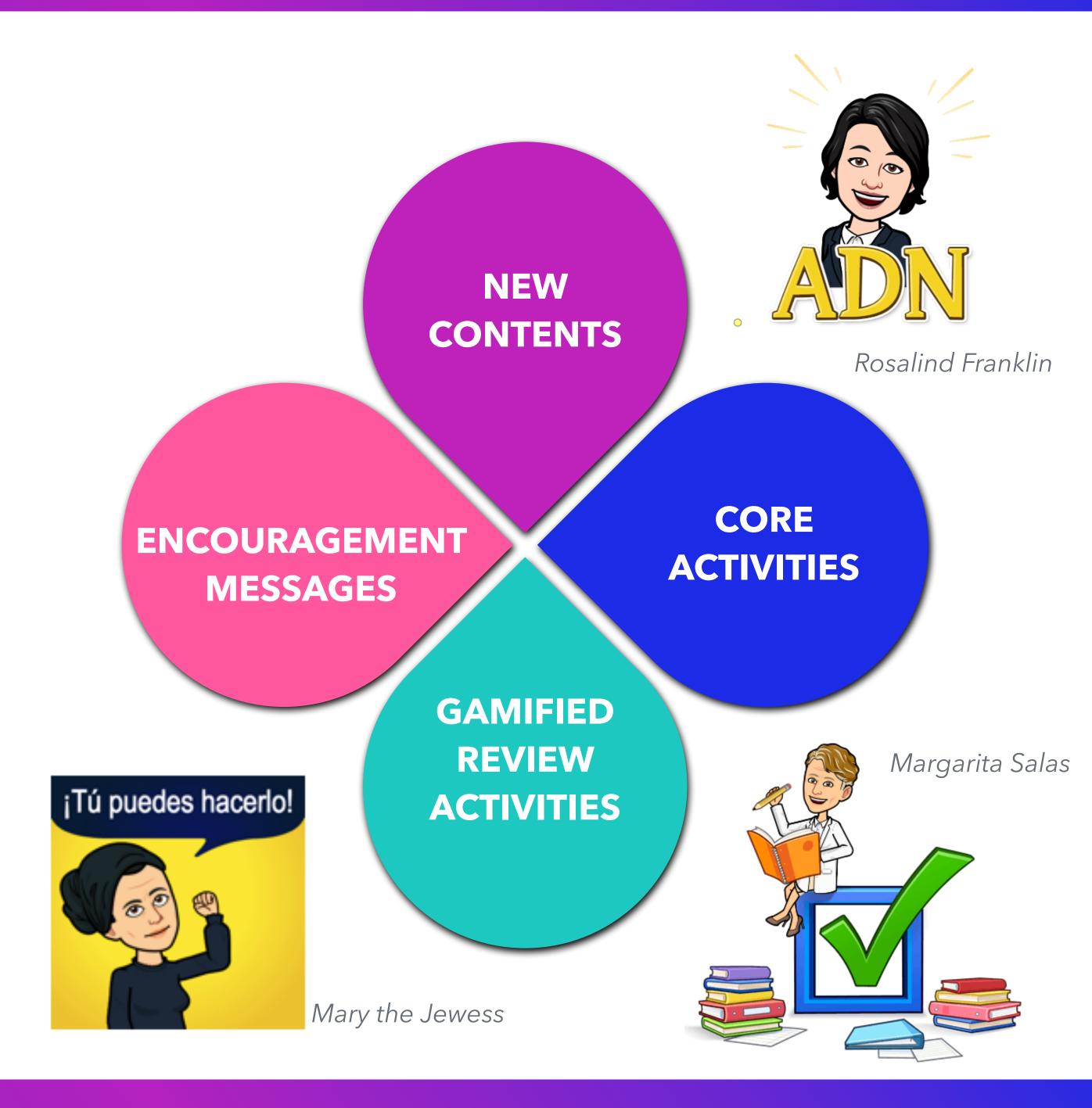


Ángela Ruiz Robles

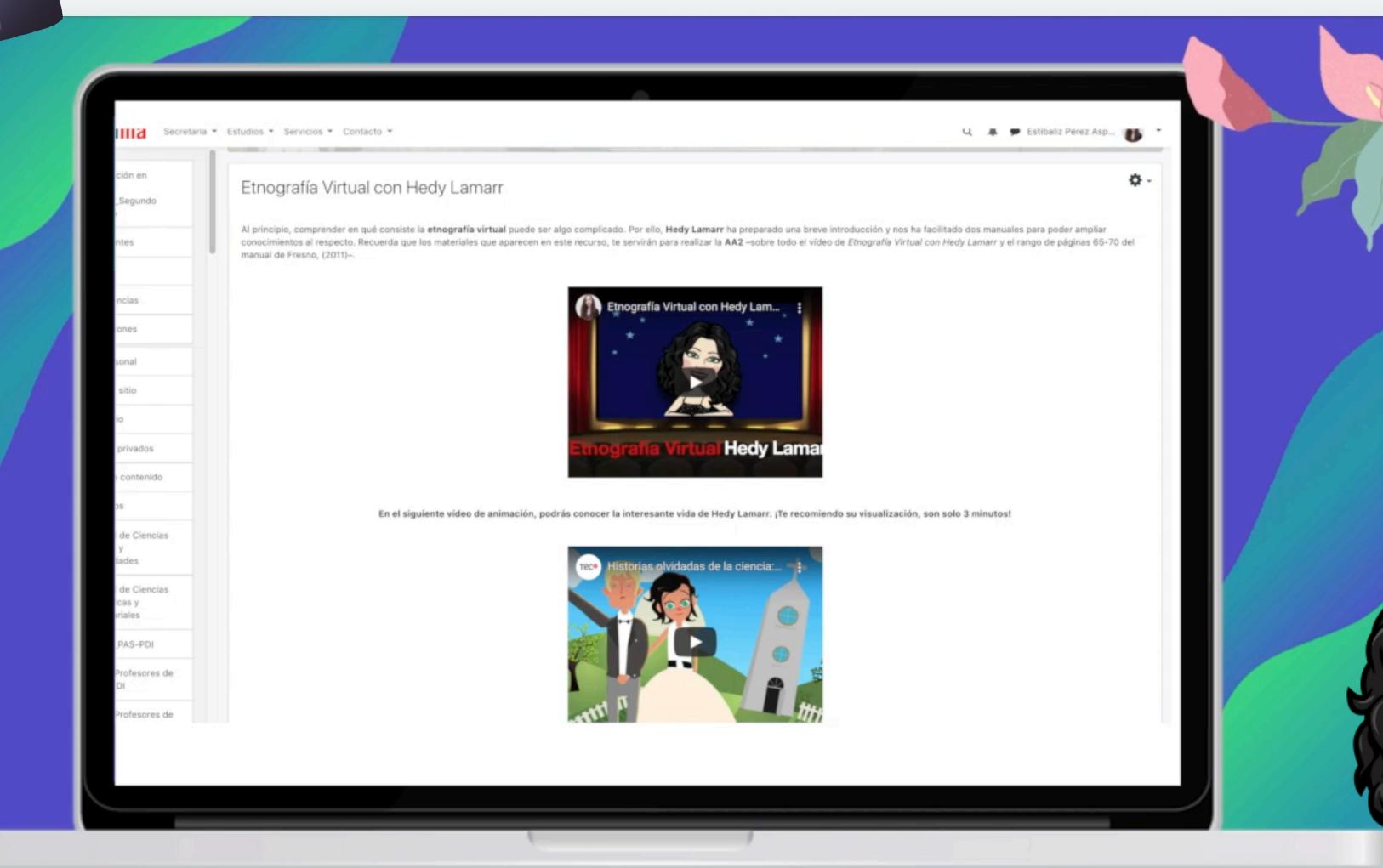
Ada Lovelace

Radia Perlman

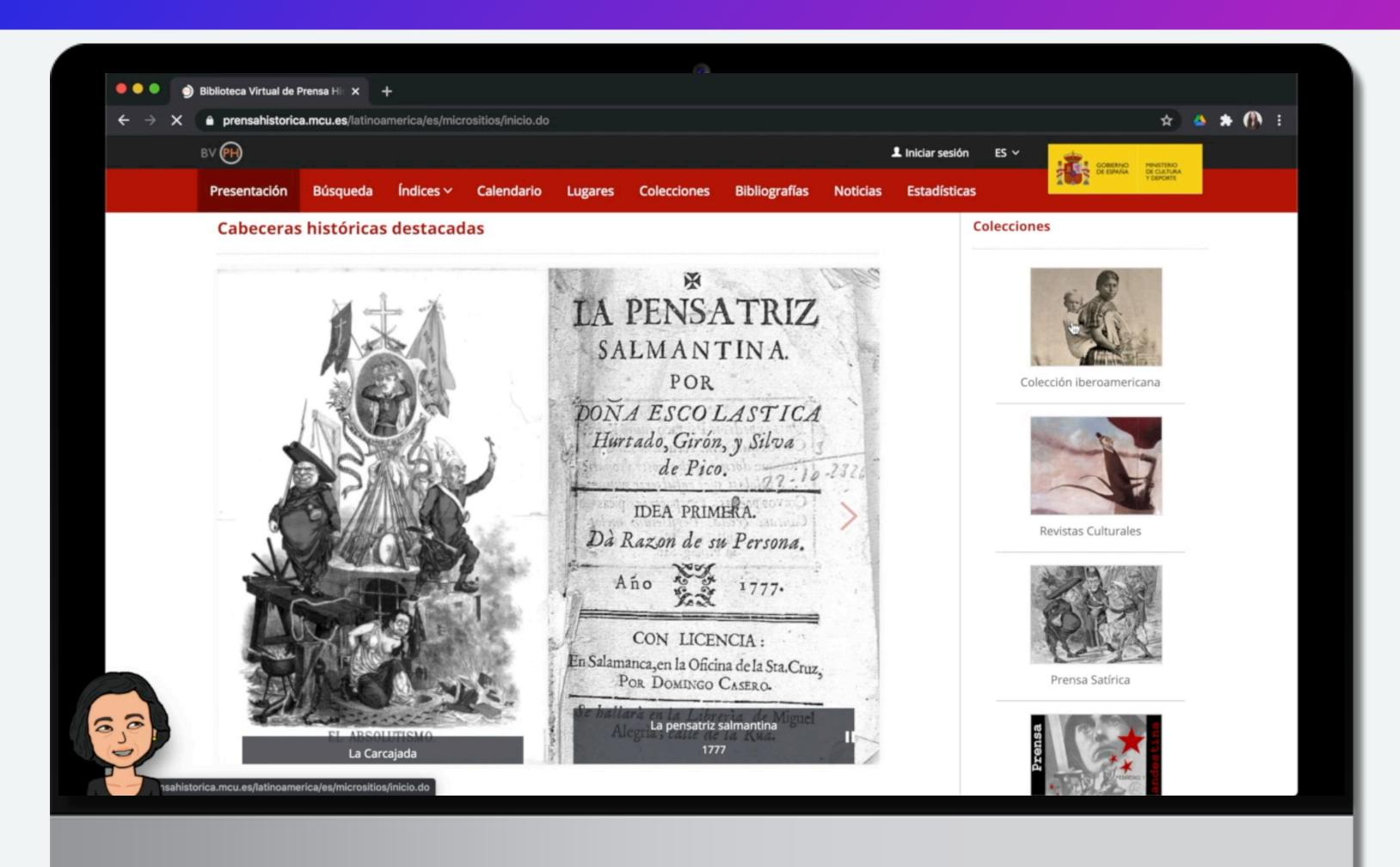
Hedy Lamarr



NEW CONTENTS & BIOGRAPHIES



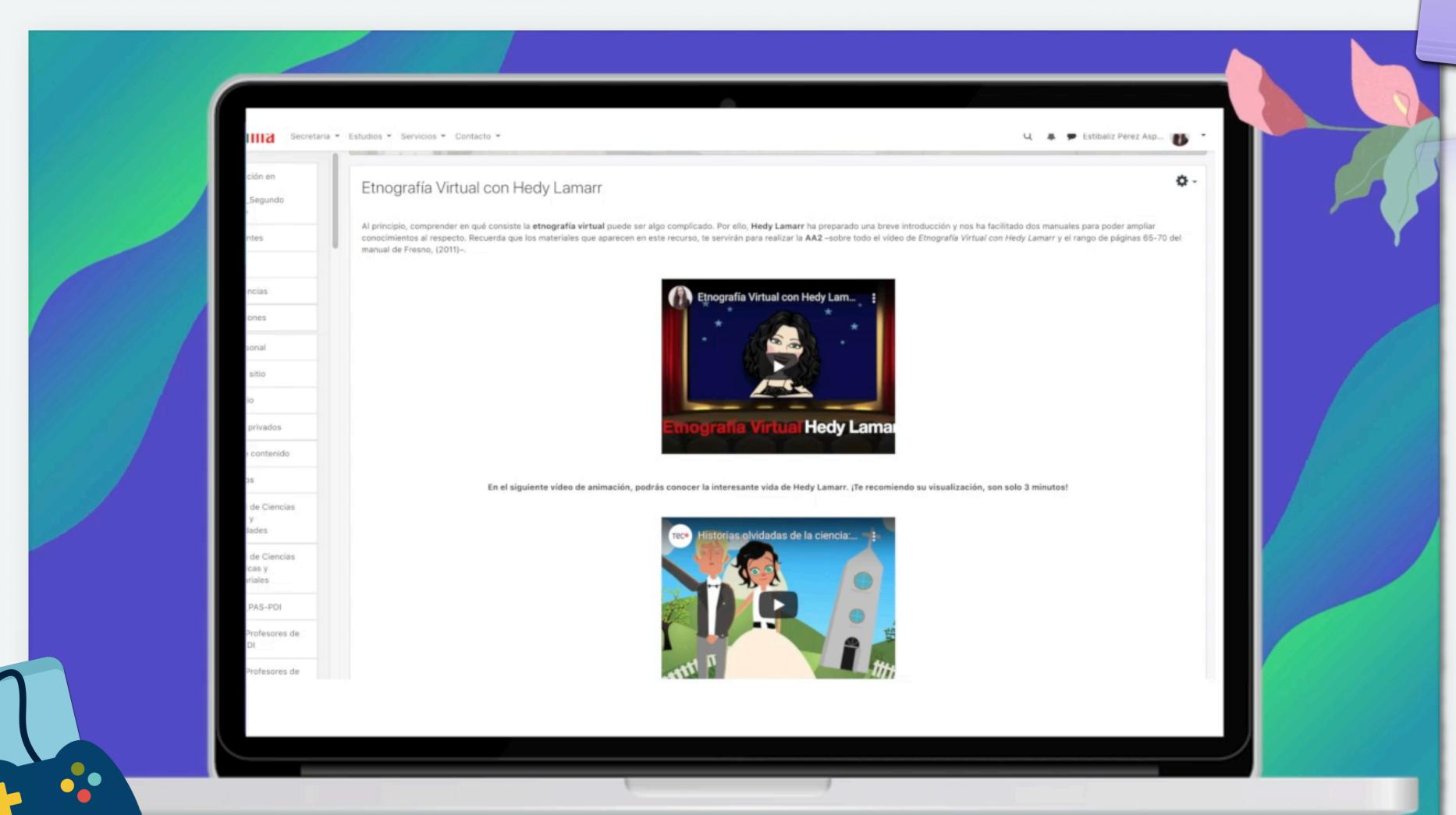


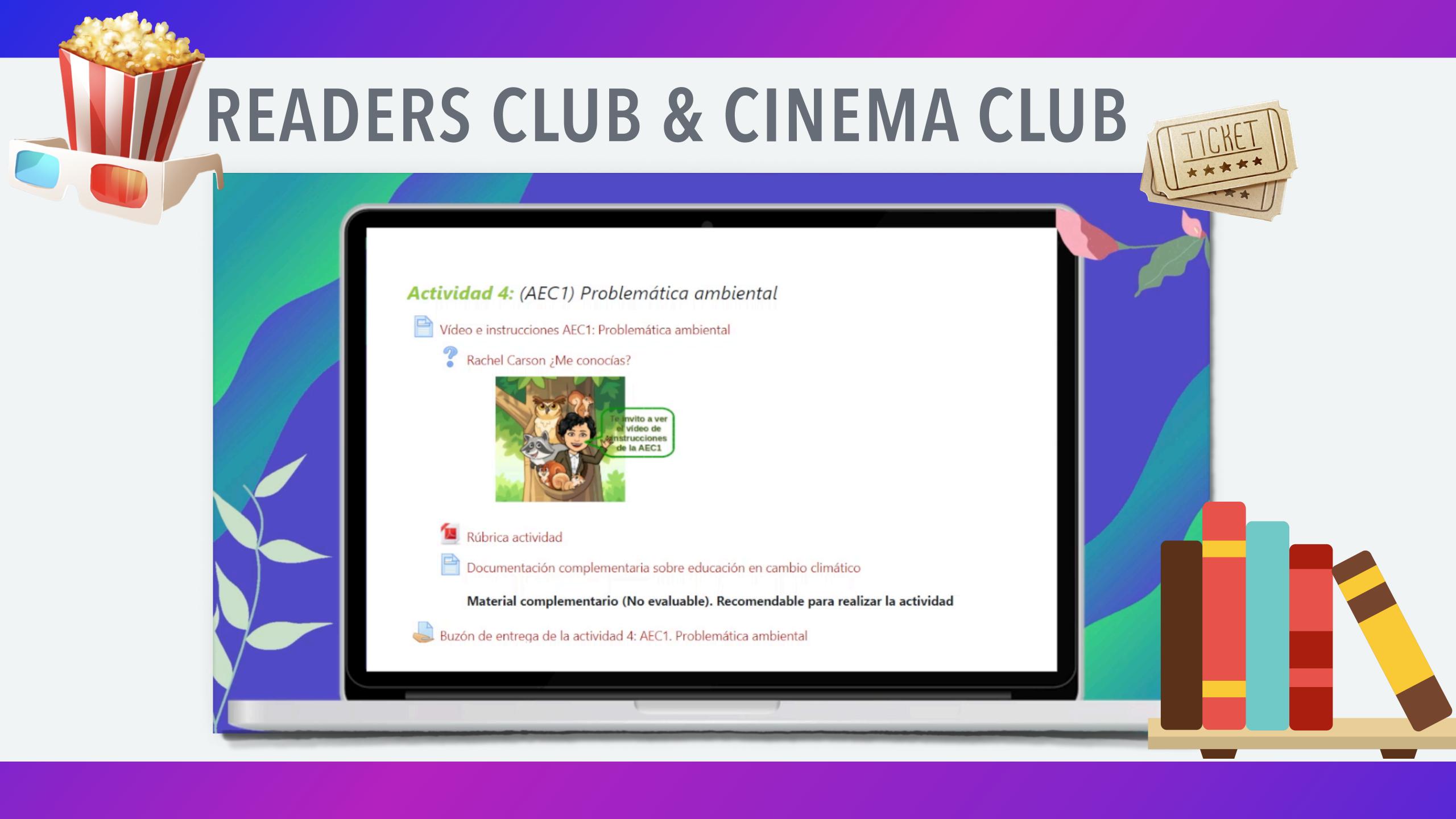


CORE ACTIVITES' INSTRUCTIONS



GAMIFIED REVIEW ACTIVITIES





MOODLE METRICS

INTERVENTION VS CONTROL CLASSROOMS

USE OF THE LEARNING PLATFORM

USE OF DIDACTIC RESOURCES

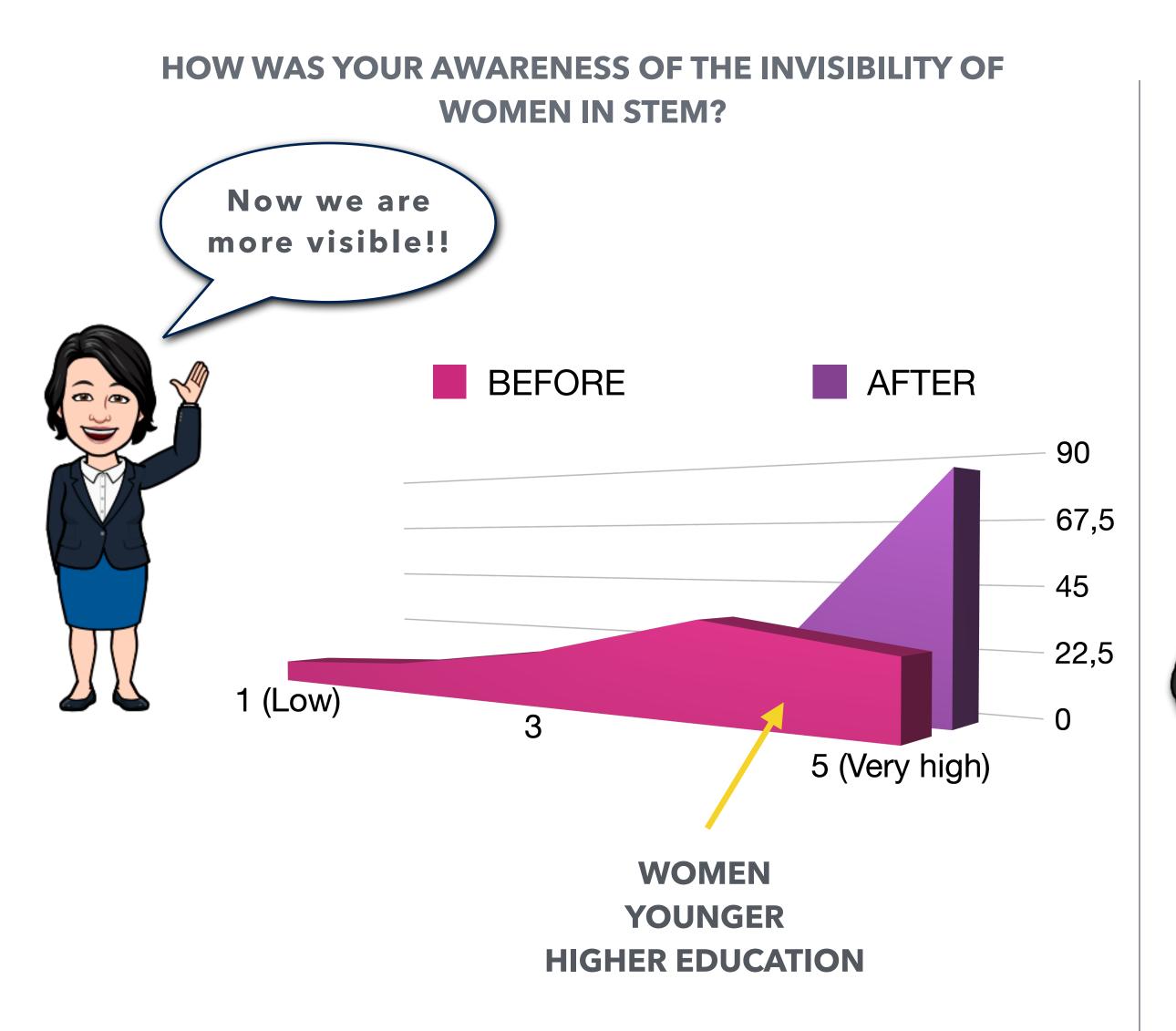
PARTICIPATION

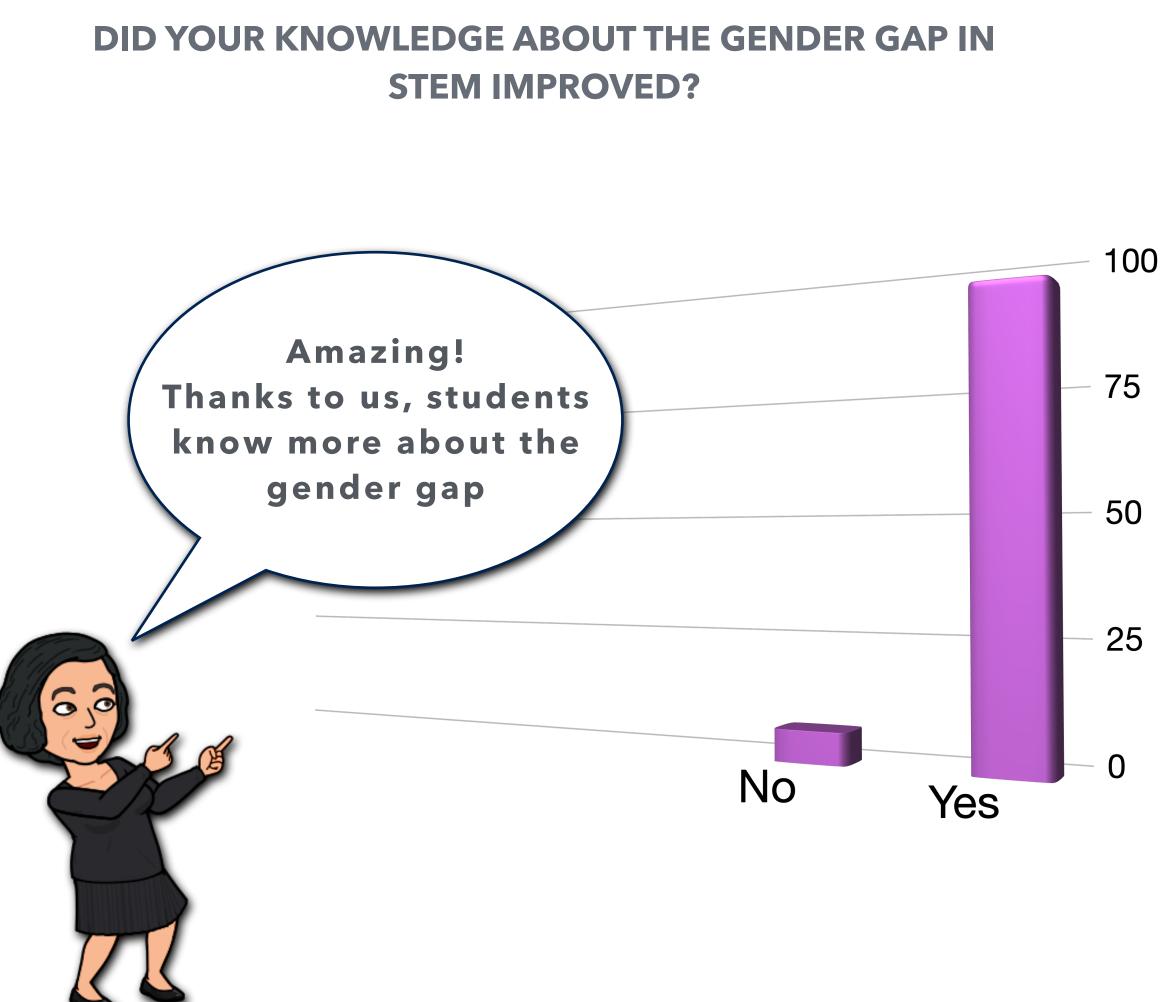


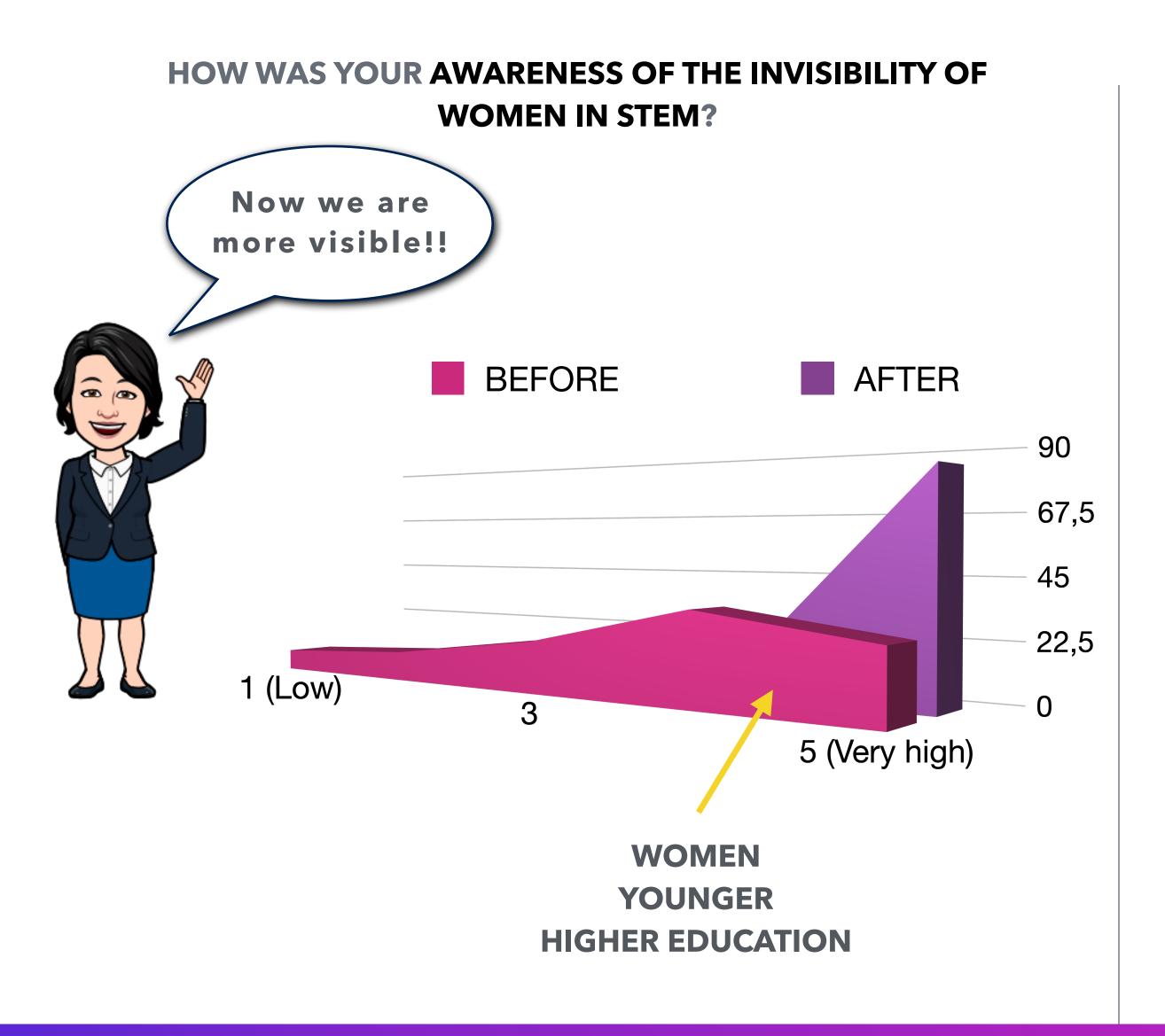
STRUCTURED SURVEY

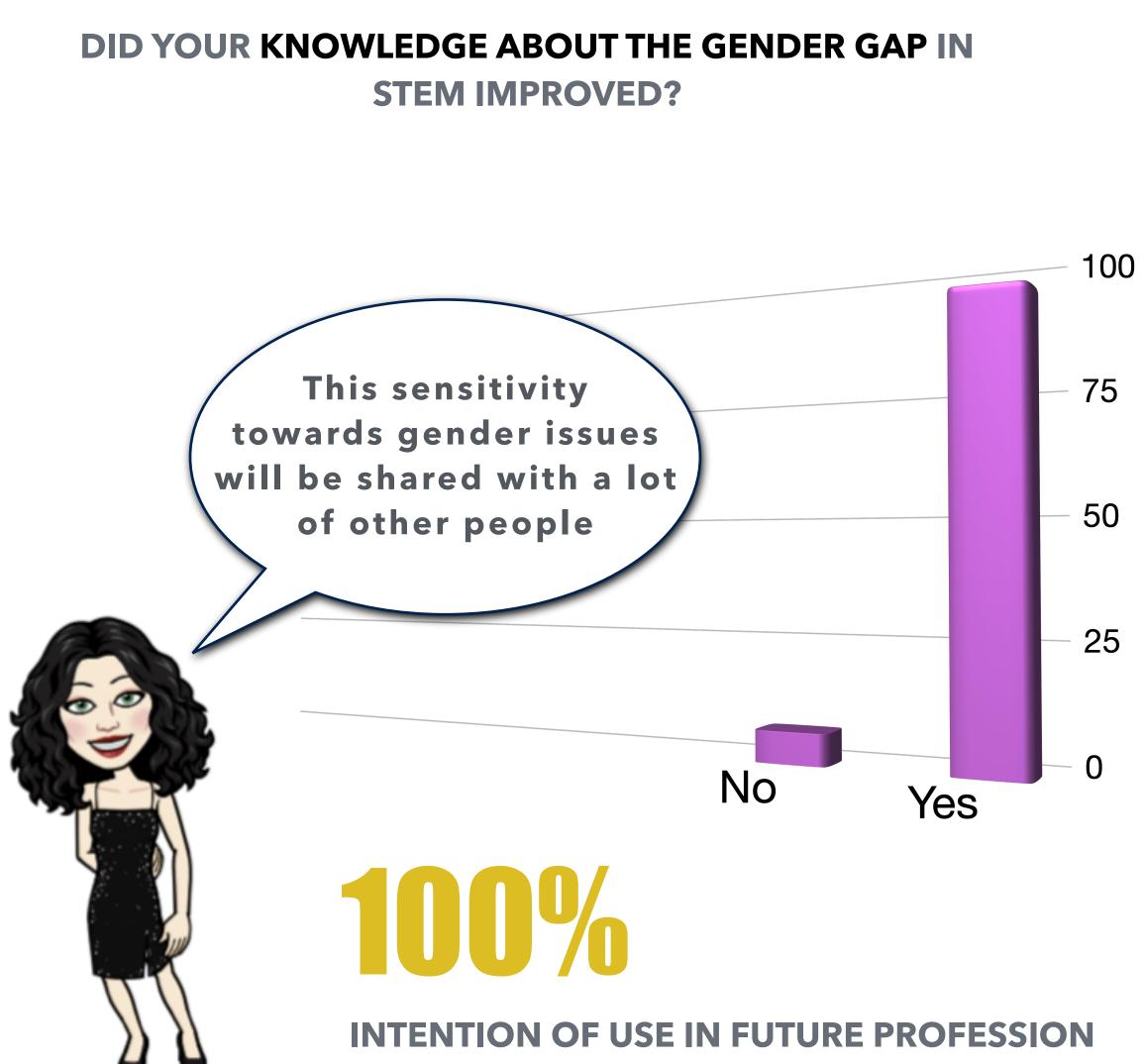
LIKERT SCALE - DEGREE OF AGREEMENT WITH THE QUESTIONS

SOCIODEMOGRAPHIC DATA

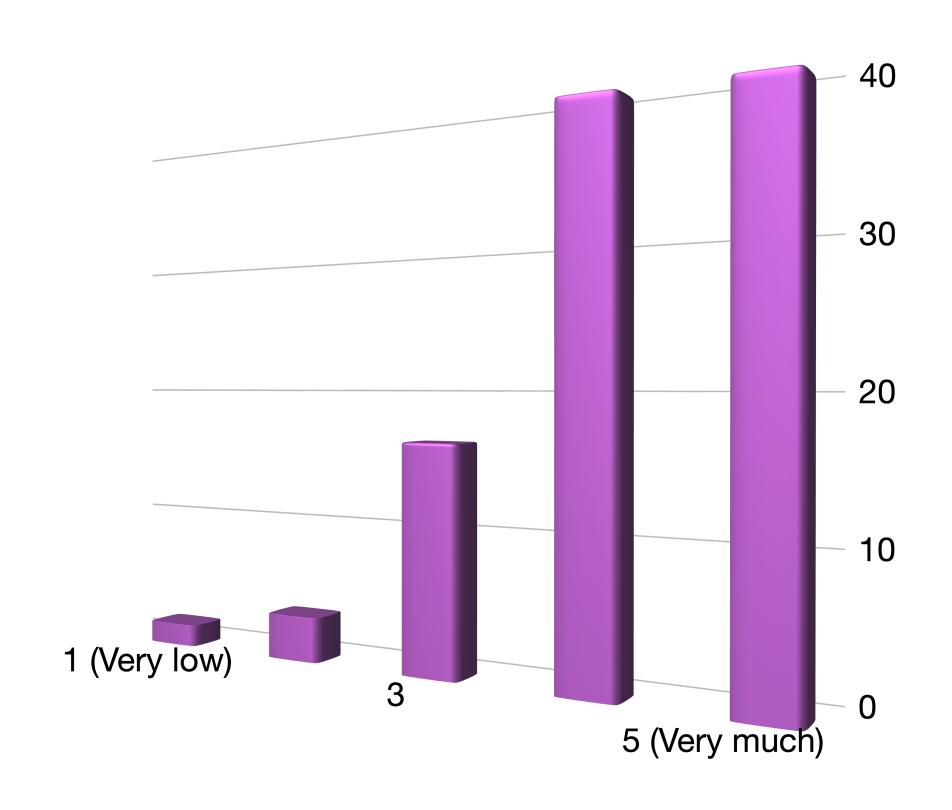




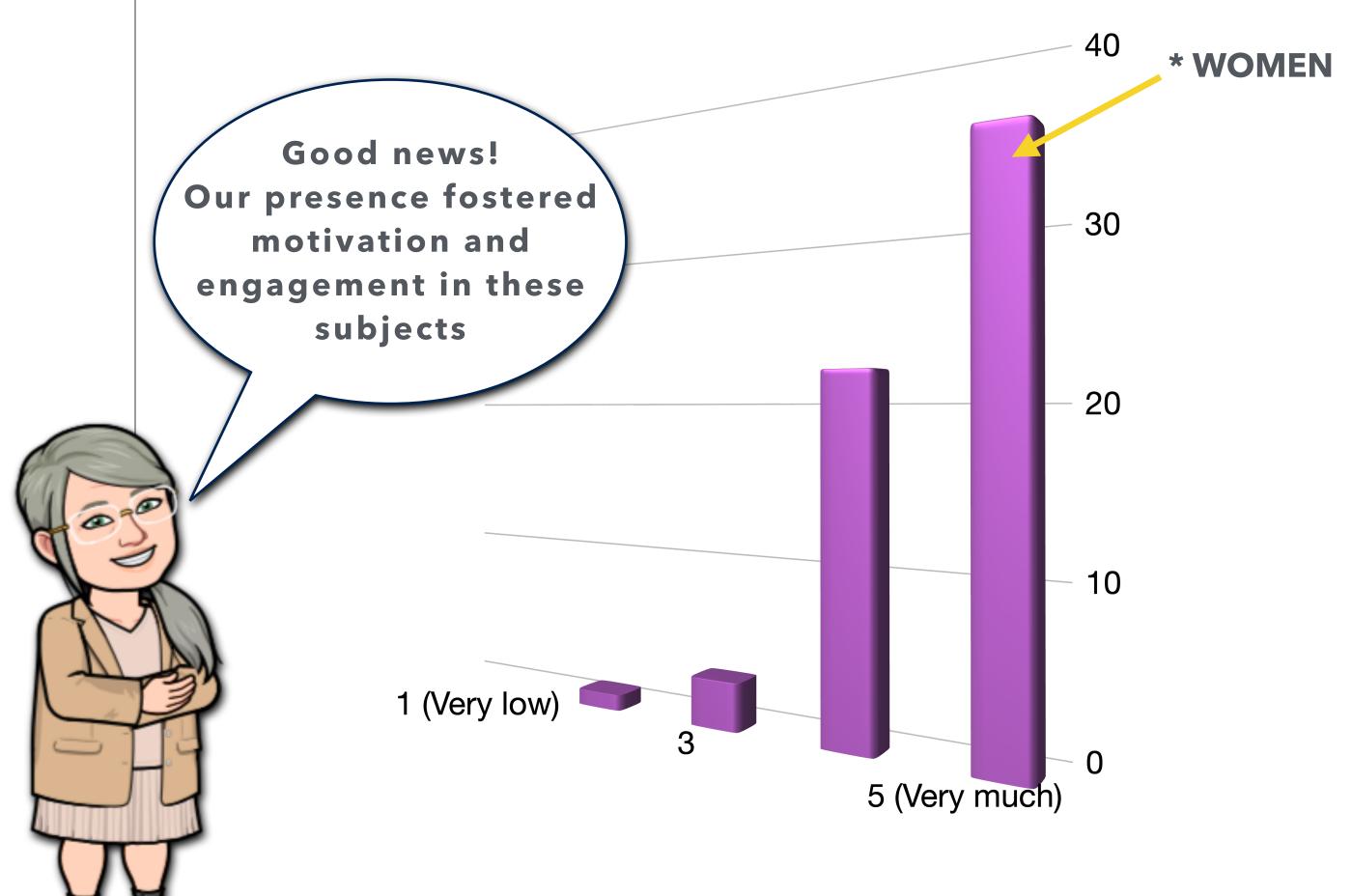




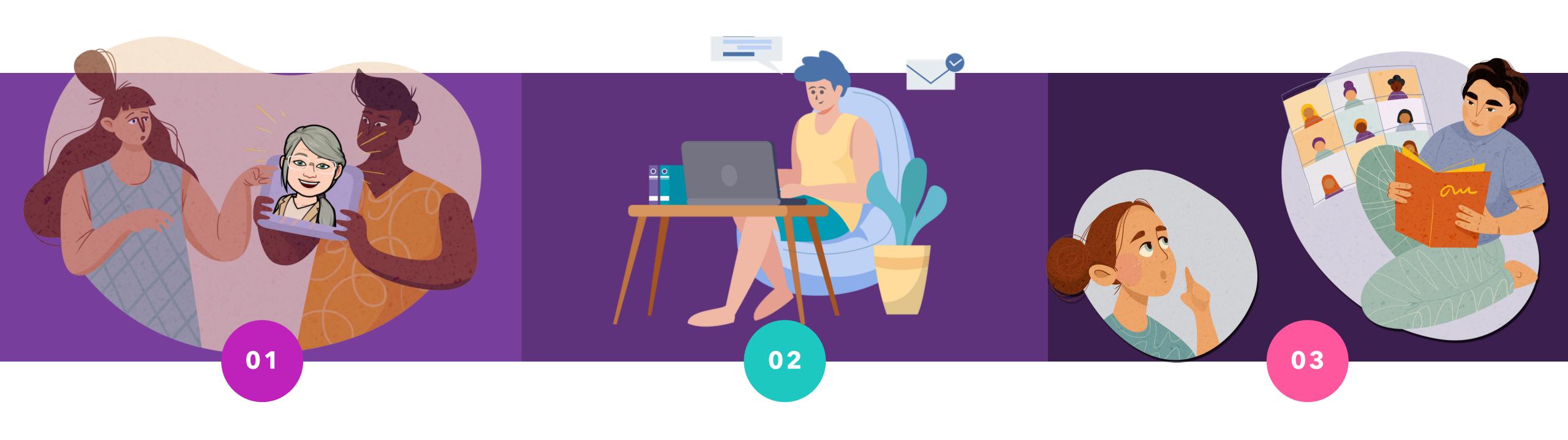




DID THE AVATARS AND REST OF ACTIVITIES INCREASED YOUR ENGAGEMENT COMPARED TO OTHER SUBJECTS?



CONCLUSIONS

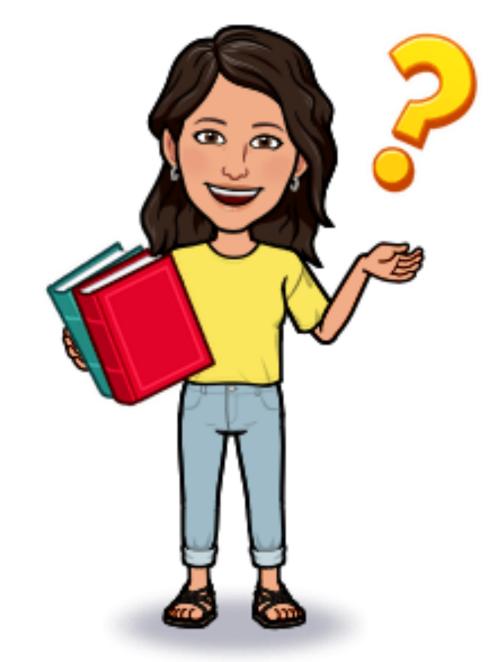


STUDENTS GAINED AWARENESS AND SENSITIVITY TO GENDER-RELATED BIASES, GOT FAMILIAR WITH THE ROLE OF WOMEN IN STEM AND FOUND IT ALL USEFUL CAREER-WISE

THE STRATEGIES USED BOOSTED STUDENT'S MOTIVATION AND ENGAGEMENT ON THE VIRTUAL LEARNING ENVIRONMENT

INCORPORATING THE GENDER
DIMENSION TRANSVERSALLY IS
CAPITAL TO COUNTERACT GENDER
STEREOTYPES AND TO FOSTER
GENDER EQUALITY









"I love this type of initiatives! I consider that they can open people's eyes."

Female, Biologist

"The subject was really interesting, it opened my eyes to things that had gone unnoticed to me before."