

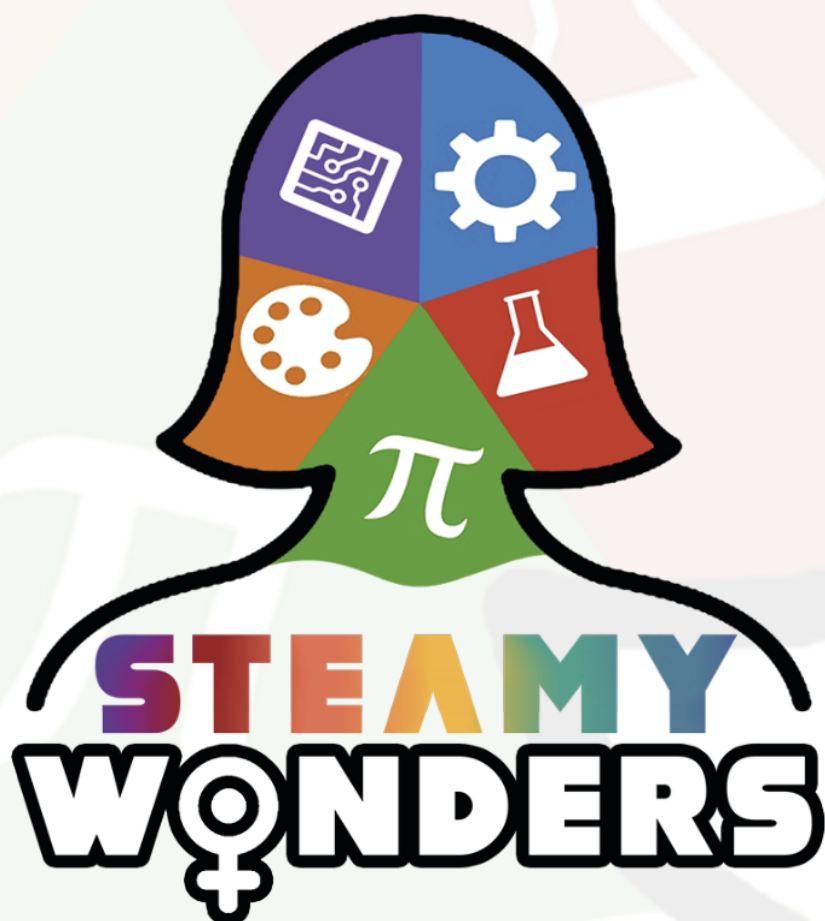


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**STEAMY
WONDERS**

WebQuest

Technology – Confidence





Element 4: A WebQuest.

THEME ALLOCATED:	Technology and Confidence
TITLE OF THE WEBQUEST:	Career Model Canvas
INTRODUCTION	
<p>Technology careers are an exciting insight into many different specialities that provide unique, challenging and rewarding experiences. Some of these specialities include Computer Programming, Data Visualisation, Network Security, Web Developers and many others. These roles are often fast paced and much like technology itself is constantly growing and changing. More and more new roles are created as new technologies come to light so technology as a discipline is constantly developing. The technology sector needs more females to act as role models in the role as over 85% of IT jobs in Germany are held by men and for the whole of the technology sector, women only make up 17% of the workforce (The Local Germany, 2019 & Eco, 2017). However, this is changing with a growing number of incentives to join the technology labour market and join some other female technologist role models such as Grace Hopper, Annie Easley and Karen Sparck Jones.</p>	
TASK:	
<p>Considering a career in technology can sometimes be hard to know where to start? So in order to plan your career this WebQuest will take you through all the steps in making a Career Model Canvas! Creating a career model canvas will not only help you make sense of potential technology career paths, but will also help to build confidence as you recognise your own qualities, qualifications and skillset that you have to offer. Through this task, you will also explore different personal competences and how they relate to potential careers. These Competences include:</p> <ul style="list-style-type: none">● Competences of the Self – Being able to know your own worth and what you can provide to a company, organisation, or society.● Competences of Strength – Being able to acquire and build upon own abilities and strengths that can be applied to both education and working lives.● Horizons Competences – Being able to creatively think about career prospects by imagining, planning and act upon career ambitions.● Network Competences – Being able to develop important relationships and networks that can provide support or opportunities. <p>Examining our personal competences, strengths, networks and horizons can help provide insight into potential careers that are open to us in the Technology sector. By examining our own qualities we can better match ourselves to the requirements of the technological sector.</p> <p>At the end of this WebQuest you will have gathered information on different careers in Technology and what skills are needed for them. Along with this will be a list of available supports and resources that are available to you that can help you to work towards your goals.</p>	



PROCESS:

STEP 1 – RESEARCH AND EVALUATE CAREERS IN TECHNOLOGY

The first step in pursuing a career in technology is to first find a career that you feel may be suited to you. You may have already decided what kind of career you wish to follow, however if not, a great place to start is by researching different technologies and their careers. For your convenience, a number of links have been provided below that will help you to find careers under the different sciences. It is important that you find a career that you feel will both suit you, and be enjoyable to you, so take your time reading about each role and what progression pathways may be available to you.

LINKS:

- A List of Technology and IT Careers

<https://www.digital-minds.agency/berufe-mit-zukunft/>

Different Science Careers in STEM Subjects

<https://www.thebalancecareers.com/stem-careers-525652>

- Resource for Finding Careers in Germany

<https://jobboerse.arbeitsagentur.de/prod/vamJB/startseite.html?aa=1&m=1&kgr=as&vorschlagsfunktionaktiv=true>

STEP 2 – RESEARCH THE SKILLS REQUIRED OF YOUR TECHNOLOGY CAREER

The second step for creating your career plan is to assess the skills required in your chosen career. This step is important as it serves to reinforce your confidence when applying for technology careers. Knowing what skills and abilities that you possess can help to overcome potential insecurities and conceptions around being a female in a STEM field. Being able to honestly match our skills and abilities to the requirements of the position also has the benefit of being able to accurately plan for things like personal growth or potential education routes if we need to upskill.

You can find what different skills are needed in general from the links below, however it is important that you also search available job positions in your area, as employers may have more specific requirements!

- Skills Related to Technology Roles

<https://www.indeed.com/career-advice/career-development/in-demand-tech-skills>

- Skills in demand in Technology

<https://learntocodewith.me/posts/tech-skills-in-demand/>

STEP 3 – LIST OF EDUCATION AND AVAILABLE SUPPORTS

The next step needed for creating a career plan requires identifying different resources and supports that are available for you not only in terms of education but also in concreting your confidence for fulfilling an technological role. Being able to map out these available supports and educational routes can help ensure that you are able to follow and





fulfil your career plan. By planning out these steps it means that not only can you gain the education that you may need for a role, but also can help build confidence by feeling truly ready and qualified.

When you have found your ideal career from the step before we need to account for the educational requirements of the position and plan accordingly. Making sure to take note of any upskilling or educating we may need. If you do not possess a relevant qualification you may need to look at what courses or programmes of study are available to you along with supports such as short courses for digital skills. The links below will help you get started.

- Official Study Guide for Germany

<https://studienwahl.de/en>

- Find Study Programmes in Germany

<https://www.study-in-germany.de/en/plan-your-studies/find-programme-and-university/?a=result&q=Science°ree=&courselanguage=&locations=&admissionsemester=&sort=name&page=1>

- Higher Education Compass for German Technology Based College Courses

<https://www2.daad.de/deutschland/studienangebote/studiengang/en/?a=result&q=technology°ree=24&courselanguage=&locations=&admissionsemester=&sort=name&page=1>

STEP 4 – TAKING NOTE OF RESOURCES AVAILABLE TO YOU

The next step in a career model canvas is to focus on what resources are available to you. This can include resources like financial backing, but it is also crucial to consider the social resources available to you such as friends and family. This comes in the way of networking. Having friends and family can help offer emotional support when needed and a lack of support is recognised as one of the main reasons why women avoid STEM professions.

It is also important to network with women who are already engaged in STEM professions as they can act as a vital support network that possess inside knowledge and experience. Seeing women in similar roles as to the one you wish to achieve can also increase your self-confidence for being a successful technician

The below links will help you to discover which networks are available to you and how you can depend on them when needed.

- How to Network Like a Pro

<https://blog.hubspot.com/marketing/networking-connections>

- How to Map Social Networks

https://socialnetworking.lovetoknow.com/How_to_Map_Social_Networks





- How Social Networks Can Help Your Job Search
https://saylordotorg.github.io/text_six-steps-to-job-search-success/s15-social-media-and-the-job-searc.html
- German Employment Support Agency
<https://con.arbeitsagentur.de/prod/profil/profil-ui/eservices>

STEP 5 – WHAT ARE THE FUTURE CAREER PROSPECTS?

We need to also consider the future career prospects that come with our chosen career. It is important to remember that it may not always be possible to start in the best position available, but rather we may need to grow into the position we want. This is an important point to consider as well for our confidence in the STEM sector, as though we may not start as high as we wished to, building experience in Technology means we're better prepared for later professions.

When creating our Career Model Canvas its important that we consider this first, and then adequately plan to build experience along the way until you reach your ideal career. Often this will be stated in the original job description from the previous step. We can also search for career growth prospects by searching for other relevant job positions or information and adding these to our career model canvas.

- What Can I Do With a IT Degree?
<https://www.prospects.ac.uk/careers-advice/what-can-i-do-with-my-degree/information-systems>
- Technology Careers and Progression
<https://www.itcareerfinder.com/it-careers.html>
- Career Paths for Technology Enthusiasts
<https://www.business.com/articles/best-careers-tech-geeks/>

STEP 6 – Career Model Canvas

You have reached the final step! This is where you put everything you have discovered, learnt and researched from the previous steps into practice by completing your career model canvas. A career model canvas is a personal resource that will help you to visualise your career progression pathway, and will help you to plan key actions that will bring you to career success and confidence in your potential role! An example of a career model canvas is included in this document as a (DOWNLOAD FILE OR GOOGLE DRIVE). Make your own copy of this canvas and add all of the information gathered from the previous steps into your own Career Model Canvas.

- STEAMY Wonders Career Model Canvas
https://docs.google.com/presentation/u/1/d/1LEKxRYPR1qBw7Mdi3Fuh_x9n_bRzNN4/copy





- Creating a Business Model, But For Your Career

<https://instituteofyou.org/personal-business-model-canvas/>

EVALUATION

Topic	Knowledge	Skills	Attitudes
Technology	<ul style="list-style-type: none">● Factual knowledge of available career pathways into the IT sector.● Theoretical knowledge of personal attributes required for career success in this sector.	<ul style="list-style-type: none">● Discuss career options in the IT sector.● Develop an education and career plan for success in the Science sector.● Solve challenges to build resilience when planning a career in the IT sector.	<ul style="list-style-type: none">● Willingness to self-evaluate to identify skills and attributes● Openness to engaging in female networks in the IT sector.

Questions

What are three skills that you need for your role in technology?

How can you encourage development of self-confidence in STEAM?

What social networks and resources did you find that were available to you that benefit your confidence?

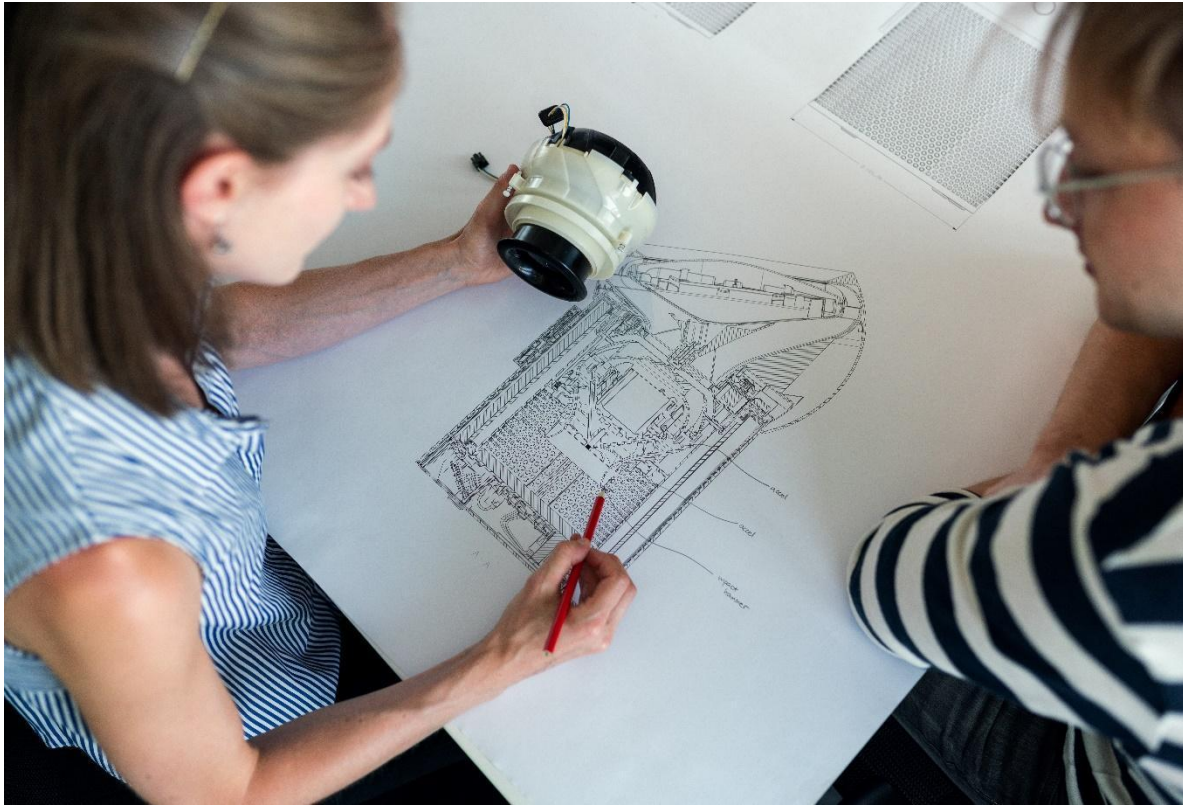
CONCLUSION





Congratulations! By completing this WebQuest you should now have a clear and exciting career plan in front of you! You will have a clear outline of your desired career and what skills and qualifications you will need to apply. Hopefully your career plan will provide you with a personal step by step guide to working your way up to the job you want and where your career can potentially grow and how you can build your confidence along the way. All that's left is for you to follow the plan and follow your dreams!

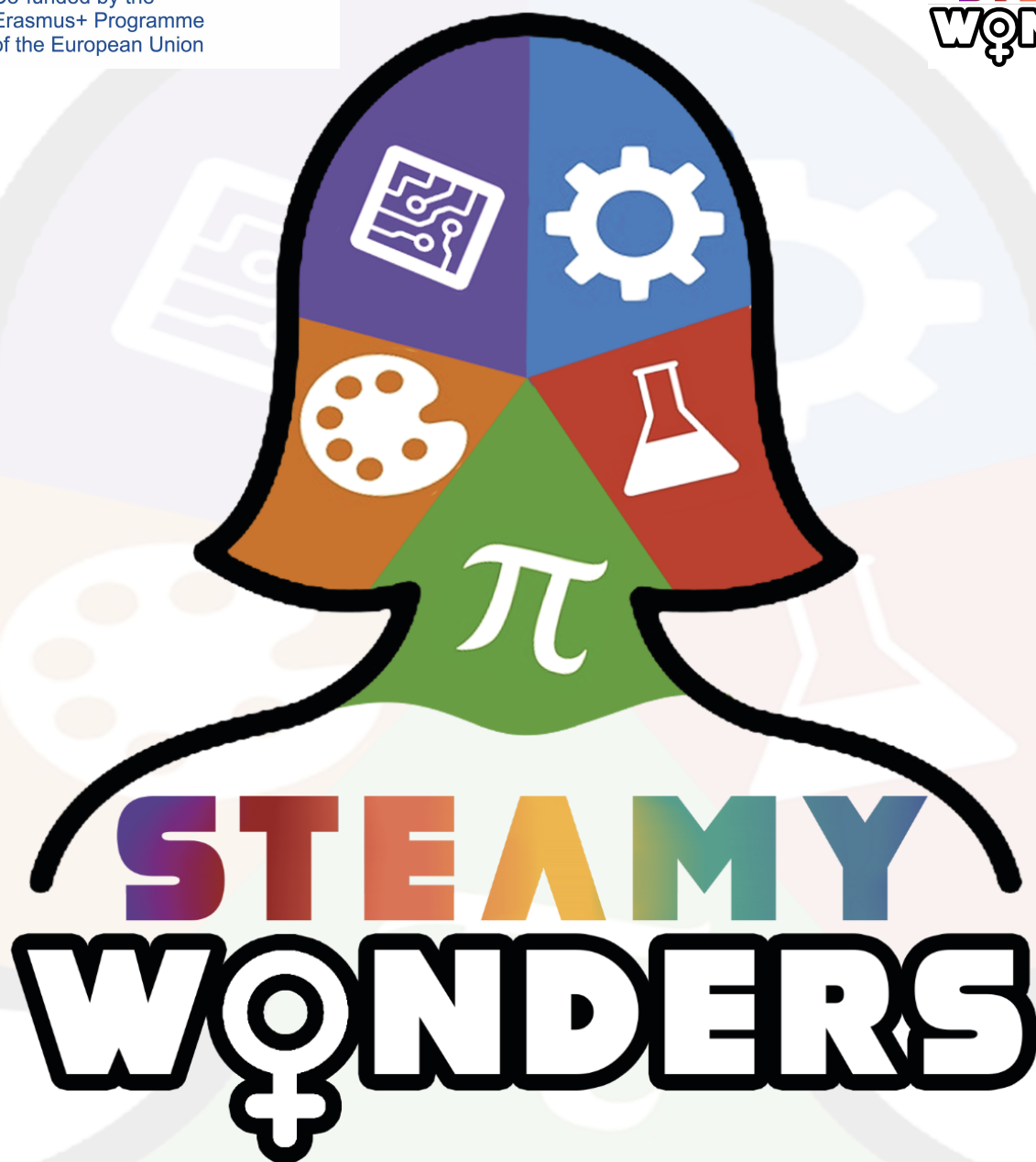
"Life is a series of building, testing, changing and iterating." - Lauren Mosenthal





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