Visit the following resource and answer the questions listed below:

<https://webfoundation.org/about/vision/history-of-the-web/>

1. Who invented the World Wide Web and when was it invented?

The World Wide Web was created by Sir Tim Berners-Lee in 1989.

1. Where did Sir. Tim work?

He worked at CERN as a software engineer.

1. What was his inspiration for the web and what problem was he trying to solve?

His inspiration was to find a way to make sharing information easier the problem he faced was that it was difficult using computers to send messages and files because you had to log into the same computer every time.

1. What were the three fundamental technologies that he developed?

HTML: HyperText Markup Language. The markup (formatting) language for the web.

URI: Uniform Resource Identifier. A kind of “address” that is unique and used to identify to each resource on the web. It is also commonly called a URL.

HTTP: Hypertext Transfer Protocol. Allows for the retrieval of linked resources from across the web.

1. What important decision “sparked a global wave of creativity, collaboration and innovation“ regarding the web?

The people at CERN announced that the internet would be free for everyone forever.

1. In addition to the technology of the web, what are five “revolutionary ideas” from Sir Tim’s work that are changing the way people and organizations are working with each other?

* Decentralisation: No permission is needed from a central authority to post anything on the web, there is no central controlling node, and so no single point of failure … and no “kill switch”! This also implies freedom from indiscriminate censorship and surveillance.
* Non-discrimination: If I pay to connect to the internet with a certain quality of service, and you pay to connect with that or a greater quality of service, then we can both communicate at the same level. This principle of equity is also known as Net Neutrality.
* Bottom-up design: Instead of code being written and controlled by a small group of experts, it was developed in full view of everyone, encouraging maximum participation and experimentation.
* Universality: For anyone to be able to publish anything on the web, all the computers involved have to speak the same languages to each other, no matter what different hardware people are using; where they live; or what cultural and political beliefs they have. In this way, the web breaks down silos while still allowing diversity to flourish.
* Consensus: For universal standards to work, everyone had to agree to use them. Tim and others achieved this consensus by giving everyone a say in creating the standards, through a transparent, participatory process at W3C.

1. What are some ways that these principles could change society and politics for the better?

The non-discrimination rue helps society because it stops people from having better quality than other people and creates equality. Bottom-up rule gives everyone an opportunity to everyone and not just to one group of people. Universality creates a platform for everyone around the world to use because it allows anyone to post anything so people anywhere in the world could post anything.

Visit the following resource and answer the questions listed below:

<https://www.w3.org/People/Berners-Lee/Kids.html>

1. What happens when you click on a link?

The link takes time to load up the website and then it loads and gives you the information that it was programmed to have.

1. Did Sir Tim invent the Internet? (Explain)

No it was a group of people that invented different parts of the internet. Vint Cerf and others created the internet protocol and the transmission control protocol. Paul Mockapetris and others figured out Domain Name system. The internet wasn’t created by one person it was a group effort and it was created by a lot of people.

1. What are some interesting math ideas that are connected to the web?
2. Explain how the Web is both a good idea and a bad idea.

The web is a good idea because it makes it easier to share information and can be very useful but it could be bad it could be used for other reasons.