Strand: **8.1**	Standard: **8.1.4**	Episode 4	**Big Idea**: How are natural resources used to make useful synthetic materials?

Title: Synthetic Materials Come from Natural Resources Brochure	**Time**: 60 - 90 min.	CCCs: Structure and Function	Practices: **Obtaining, Evaluating and Communicating Information**

Episode Snapshot:
Students **obtain, evaluate and communicate information** about a specific type of synthetic materials. They will identify that because of its structure, and properties it has a specific function. They will then create a brochure about the materials to share with the class.

**** Teachers could use this outline for more than a brochure format. Teachers could allow students to create a poster, powerpoint, or even a YouTube video about this, to bring more technology into the lesson. This is depending on resources available to you.

Gathering
Students will **obtain and evaluate information** about different kinds of synthetic materials.

Have students make a list of synthetic materials. On the board.
Explain to students that you want them to learn more about the different synthetic materials out there and where they come from. Read "Man and Materials through History" Students can read this by themselves or it can be read together as a class, to ensure understanding.
Following the reading, discuss the article with the students, what do they think, what would it be like back in the stone or bronze age? How would life be different what materials or products do you think you would miss the most?

Explain that you wish for them to research a synthetic material we use today to understand what it is made from, what properties it has, what are its functions or uses, what is its impact on society, and what are the advantages or limitations to the material. Student will choose a synthetic material from the list the students created in episode 2, **obtain and evaluate the information** on the material following the Synthetic Material Resource Brochure Rubric, and then create a brochure following the rubric.

Communicating
Once students have created and completed their brochures. Students will share them with the class. This can be done as a group or a couple of Think-Pair-Share with a partner.

Assessment: This the completion of their Brochure. Rubric with point values is provided but can be changed and altered to the teacher's specifications.	**Materials, resources, handouts, etc:** - "Man and Materials through History" - Synthetic Material Come from Natural Resources Brochure Worksheet - Synthetic Material Brochure Sample - Synthetic Material Research Page