

## 2nd Grade Science

Each activity is designed for **ONE** day of science learning. Each of the activities should take approximately 30 minutes to complete. Students can choose which activity they would like to do.

Click on the **blue words** to be taken to the activity.

Be in touch with any questions – Ms. Wernimont [wernimonth@springfieldpublicschools.com](mailto:wernimonth@springfieldpublicschools.com)

### Activity A – Materials, Properties and Engineering

1. Watch this video to learn about the materials used for buildings: [Exploration Video](#)
2. Carry out this STEM challenge and build a paper tower. [Paper Tower Instructions](#)

- **Materials** - If you do not have index cards and paper clips at your house, be creative and substitute with other materials. Junk mail is a great source for paper, and you can use tape instead of paperclips! Be creative!
- **Note** - We will **not** use the worksheet mentioned in the instructions. Just tell someone at your house the answers. Stop after the paper tower activity. You do **not** need to complete the Extension activities.



Scroll down for more activities...

## Activity B – Engineering Inspired by Nature

**Beaver Dams** Did you know animals build structures too? Watch this short [video](#) to find out how beavers build dams to provide them with shelter and change the flow of water in nature.



Beaver Dam

**Man-made Dams** Humans build dams as well, to store water for drinking and watering plants, to create electricity, and to prevent flooding. Watch this short [video](#) to learn about the Hoover Dam.

Engineers often get inspiration from nature when they design things.



Hoover Dam

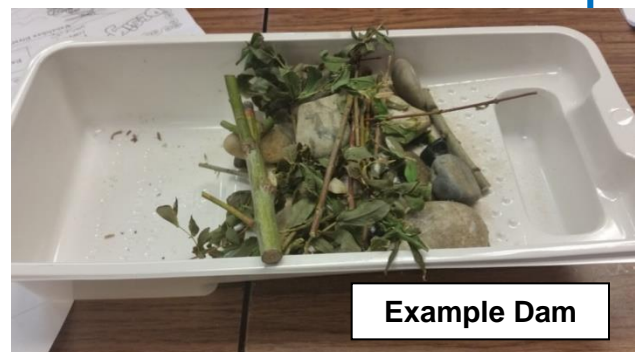
**Challenge:** For this activity you are going to plan, design, construct and test a dam using natural materials. Just like the beavers did!

**Materials:** (think about the material's physical properties)

rocks (various sizes)  
sticks (to act as logs)  
sand or soil  
small leaves  
troughs or container to create the dam inside

### Instructions:

1. Sketch your plan in your science notebook
2. Gather your materials
3. Build your dam
4. Test your design. Did it change the flow of water?
5. Send Ms. W a picture!
























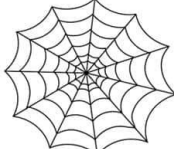



Example Dam

## Activity C – Scavenger Hunt

This is an excellent activity to repeat since there are so many living things growing and changing outside!

If it is nice outside, go on a scavenger hunt. Can you find any of the items around where you live?

- When you find an object, make observations using your senses to describe its physical properties.
- Record these observations in your science notebook.
- Take a picture of your science notebook and send it to Ms. W.

				
Leaf	Nut	Cloud	Flower	Animal
				
Nest	Fern	Mushroom	Dead Tree	Crawling Insect
				
Water	Dirt	Free	Stump	Butterfly
				
Live Tree	Rock	Spider	Bird	Stick
				
Grass	Web	Flying Insect	Tracks	Pinecone