

# Big Thursday Tasks

Week beginning 08.06.20

## Computer Science

You've been practising your coding skills over the past few weeks. Now it's time to think about some of the concepts of computer science.

### *Decomposition:*

What is decomposition? Decomposition is when we break the problem down into smaller parts. We break down problems into smaller parts when we are programming and coding because the smaller parts are easier to solve.

Choose a task from below to complete this week:

### **Break it Down**



#### **Activity**

Ask your child to choose an item they can see. Ask them to sketch it and break it down by labelling as many different parts as possible. This can be run as a competition – who can break it down the most?

#### **Learning**

In computing decomposition allows us to break complex tasks into more manageable tasks. Here your child practises decomposing objects around them.

### **Design your ideal back garden**



#### **Activity**

Ask your child to look at their own garden or think of a local green space and break it down into different parts. Grass, patio, decking, pond, vegetable patch. Get them to design their own perfect garden by sketching ideas for each part.

#### **Learning**

Here your child has made the task of designing a garden easier by breaking it down and looking at each section separately.

### **Comic Flick Book**



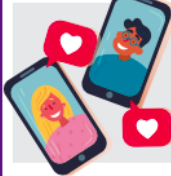
#### **Activity**

With your child, cut, fold and staple paper into a little flick book. Ask them what they want to happen in their animation and together break this down into steps for the drawings on each page.

#### **Learning**

Here your child has decomposed the animation into a sequence of individual images. What other animations can your child create?

### **Design an App**



#### **Activity**

Ask your child to think up a new app. This could be a game, fitness or travel app for example. Ask them to create a design for the app by breaking it down and sketching out the different screens the user will see.

#### **Learning**

Decomposing the app down into the different screens allows your child to create a design to illustrate how their app would work.

### **Dodgy Dance Moves**



#### **Activity**

With your child select a favourite party song which you can learn the dance to, such as the YMCA or Macarena. To learn the moves, break the song down into different sections, then look at the actions for each section.

#### **Learning**

Decomposing the dance sequence down into verse, chorus and then smaller chunks makes the task of learning the moves easier.

## Art around the world

This week, you are going to choose an artist you would like to learn more about.

1. **Art gallery!** Look at the work of different artists and choose the one whose work you like the most.
2. **Fact finding mission!** Find out which country the artist comes from then do some online research to find at least 5 more facts.
3. **Get arty!** Choose one of their pieces of art to recreate *or* create your own, unique art in their style.

Some website suggestions:

<https://www.tate.org.uk/kids> <https://www.vam.ac.uk/>

<https://www.nationalgallery.org.uk/>

<https://www.guggenheim.org/>

**Remember to post your facts and**



**artwork on the blog!**



## **Outdoor learning/STEM- Human sun dials or Constellation art work**

### Human sun dials-

For this activity it needs to be a sunny day with a clear sky- fingers crossed for lots of sunny days where you can try this experiment! Your task is to create a sun dial using your own shadow as the dial.

### What you will need-

A large open space, chalk, a tape measure, paper and pencil, a camera, someone to draw round your shadow.

### Instructions-

1. Using your chalk draw an "X" on the ground. This will be the middle of your sun dial and the place where you will stand each time. Start this activity early in the morning if possible as you will be coming back to it all throughout the day.
2. Stand on your "X" and ask someone to draw round your shadow using chalk.
3. On your piece of paper write down what time it is and what you notice about your shadow. Is it short and wide? Is it long and thin? Which way is it facing?
4. Take a photo of your first chalk shadow.
5. Repeat steps 2, 3 and 4 all through the day. Every hour or two would be good. Set an alarm to remind you!
6. At the end of the day look at your notes and photos. What are your findings? How has your shadow changed throughout the day? Why do you think this has happened? Where did the sun rise and set? What time was your shadow longest/shortest? Can you link this activity to any of the topics you have worked on in school recently?
7. Share your findings and photos with us on the blog!

### Constellation art work-

I am giving you a second task this week just in case it isn't sunny or clear enough for you to do your human sun dials. Or just in case you fancy doing two outdoors/STEM activities!! In this activity you will be using chalk and stones or rocks to create your own star constellation pieces of art work outside.

### What you will need-

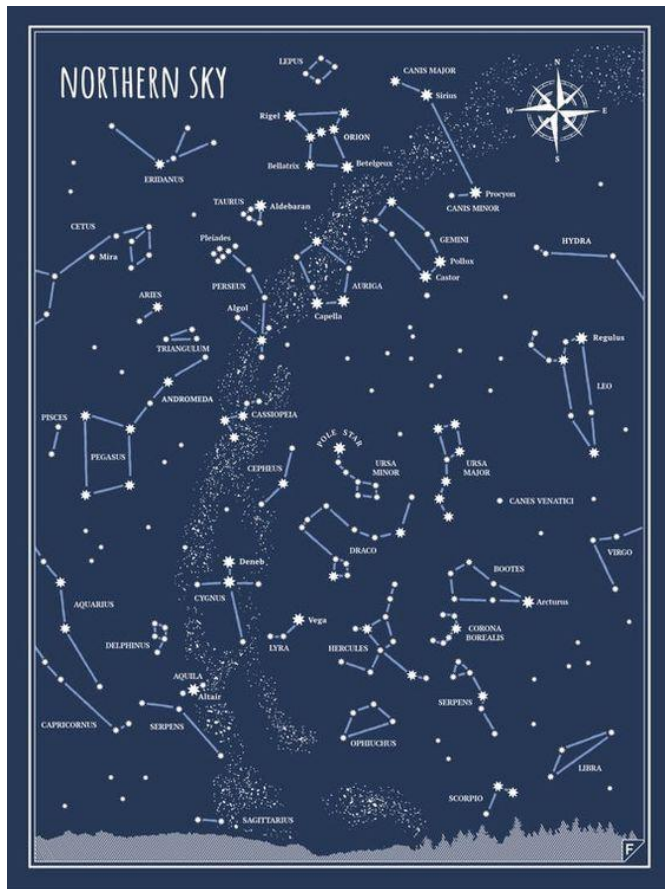
Chalk, an open space outside, rocks/stones, pictures of star constellations, camera.

### Instructions-

1. Choose which constellation you would like to create first.
2. Lay out your rocks or stones as the stars in the constellation- use the picture to help you. This is more difficult than it sounds.

- Once you have all your stars in place use your chalk to draw lines which link the stars up. Kind of like a dot to dot. Again remember to use your picture so that you don't link the wrong stars to each other.
- Take a photo of your constellation and compare it to the picture you were using. How did you get on?
- Try a few more constellations that you like.
- Now have a go at designing your own constellation. Think of what type of image you want to create; you could sketch it out on paper first. Then use your rocks/stones and chalk to create it on the ground.

Here are some pictures of constellations which you might want to have a go at making. You might need to zoom in on them or google them for a clearer image.



## **Music**

Listening activity.

A couple of weeks ago you drew a sound scape for a walk that you had been on. This week I'd like you to listen to some famous classical pieces, and then draw an image of what you imagine when you hear it – is it a place, a person, an animal? What colours? An alternative to this is to build or sculpt what you hear – use Lego blocks or play dough and create a 3D representation of what the music makes you picture. This activity works best if you don't think too much about the title, but just listen to the music and let yourself sketch whatever comes to mind. Here are some Youtube links to some pieces I think work well.

<https://www.youtube.com/watch?v=ho9rZjlsyYY>

<https://www.youtube.com/watch?v=VUF9g9V-Ang>

<https://www.youtube.com/watch?v=VZAGLjtj5RU&feature=youtu.be>

<https://www.youtube.com/watch?v=Mq3hRVAC1GE>

<https://www.youtube.com/watch?v=cXOanvv4pIU>