



Year Group: 4

Autumn 1

### What's the problem with a chocolate teapot?

Area from curriculum you are studying:

Science: Changing states

**WOW:** Making ice hands melt the fastest completion related to the disney film Frozen

Learning Challenge 1: **What do Diet Coke and a Wispa have in common?**

*Sorting , predicting and comparing a range of materials into the three states of matter*

Learning Challenge 2: **Could you be a real life Elsa?**

*To measure what speeds up the rate of changing materials - using variables*

Learning Challenge 3: **So, what is the problem with a chocolate teapot?**

*Creating their own experiment about what happens when chocolate is heated and cooled*

Learning Challenge 4 **What**

Learning Challenge 6: **Why does Nana say windy days make th**

Res Learning Challenge 5: **Wha  
the play ground?**

*Linking with Challenge 5 what does puddles and washing have in common ? Ch  
happens to speed up evaporation.*

*Investigation with puddles outside - measuring the time to evaporate.*

#### Literacy Link:

Explanation text of the water cycle

Using comparative language and scientific vocabulary when writing up experiments using correct subheadings.

#### Creative Art /Expressive Link:

Music and Dance - Creating a piece that is an interpretation of the water cycle

#### Other Curriculum Links:

ICT - Using iPads to research different melting points of materials

Maths - Measurement - temperature, melting points and measuring the changing states of water in ml and cm

#### Fiction and Non-Fiction Links

Concept cartoons

Frozen Disney film - links to science frozen hand experiment.