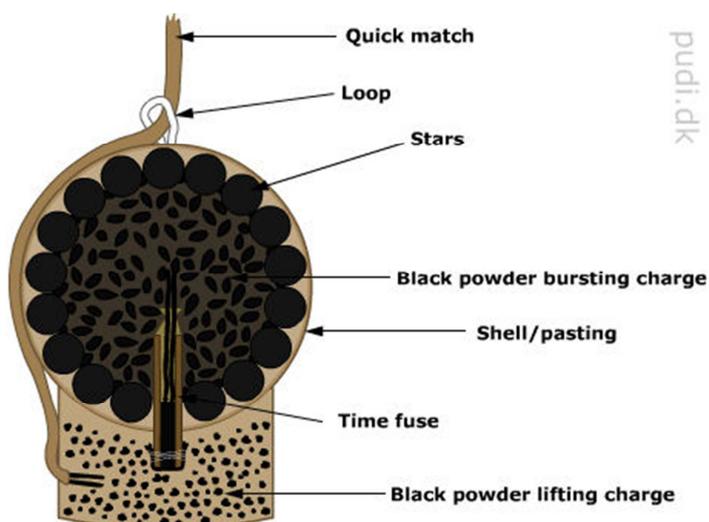


Science of fireworks

Worksheet 1

1. Do you like fireworks? When was the last time you saw the fireworks display? When do people set off fireworks in your country?
2. Divide into two groups and prepare a short presentation about :
 - ❖ 4th of July celebrations in the USA
 - ❖ 5th of November celebrations in the UK
3. Watch a National Geographic film about fireworks:
<http://video.nationalgeographic.com/video/i-didnt-know-that/idkt-fireworks?source=relatedvideo>
Did you learn anything you didn't know?
4. Let's learn some more, find the answers to these questions:
 - ❖ What are the fireworks made of ?
 - ❖ How do they explode?
 - ❖ How are the colours created?
5. Look at the aerial shell diagram and watch a film about fireworks :
<http://www.youtube.com/watch?v=nPHegSull M>



Science of fireworks

Worksheet 1

<http://www.instructables.com/id/How-to-Make-Fireworks/>

http://news.bbc.co.uk/cbbcnews/hi/newsid_4360000/newsid_4361500/4361562.stm

<http://science.howstuffworks.com/innovation/everyday-innovations/fireworks1.htm>

<http://scifun.chem.wisc.edu/chemweek/fireworks/fireworks.htm>

<http://chemistry.about.com/od/fireworkspyrotechnics/a/fireworkcolors.htm>

6. Listen to Katy Perry's song "Firework" , look at the lyrics and underline all the words and expressions connected with today's lesson

<http://www.youtube.com/watch?v=QGJuMBdaqlw>

"Firework"

Do you ever feel like a plastic bag
Drifting through the wind, wanting to start again?
Do you ever feel, feel so paper thin
Like a house of cards, one blow from caving in?

Do you ever feel already buried deep six feet under?
Screams but no one seems to hear a thing
Do you know that there's still a chance for you
'Cause there's a spark in you?

You just gotta ignite the light and let it shine
Just own the night like the 4th of July

'Cause, baby, you're a firework
Come on, show 'em what you're worth
Make 'em go, "Aah, aah, aah"
As you shoot across the sky-y-y

Baby, you're a firework
Come on, let your colours burst
Make 'em go, "Aah, aah, aah"
You're gonna leave 'em all in awe, awe, awe

You don't have to feel like a wasted space
You're original, cannot be replaced
If you only knew what the future holds
After a hurricane comes a rainbow

Science of fireworks

Worksheet 1

Maybe a reason why all the doors are closed
So you could open one that leads you to the perfect road
Like a lightning bolt, your heart will glow
And when it's time you'll know

You just gotta ignite the light and let it shine
Just own the night like the 4th of July

'Cause, baby, you're a firework
Come on, show 'em what you're worth
Make 'em go, "Aah, aah, aah"
As you shoot across the sky-y-y

Baby, you're a firework
Come on, let your colours burst
Make 'em go, "Aah, aah, aah"
You're gonna leave 'em all in awe, awe, awe

Boom, boom, boom
Even brighter than the moon, moon, moon
It's always been inside of you, you, you
And now it's time to let it through-ough-ough

'Cause, baby, you're a firework
Come on, show 'em what you're worth
Make 'em go, "Aah, aah, aah"
As you shoot across the sky-y-y

Baby, you're a firework
Come on, let your colours burst
Make 'em go, "Aah, aah, aah"
You're gonna leave 'em all in awe, awe, awe

Boom, boom, boom
Even brighter than the moon, moon, moon
Boom, boom, boom
Even brighter than the moon, moon, moon