

# MONTHLY CHALLENGE

## ENGINEERING - PRIMARY SCHOOL CHALLENGE 6 - SEPT/OCT 2023



### TABLE MOUNTAIN WILDFIRES

Every year Table Mountain National Park is at risk of wildfires. When these wildfires happen, the fire department must rush to put out the fires. Sometimes these fires are out of control and burn over 7000 hectares of the fynbos vegetation (<https://www.scidev.net/global/news/wildfire-controlled-burning-environment-pollution/>). These fires destroy some fynbos species some of which are part of heritage plant life and are also costly to the city to put out.

### Could there be a way to prevent these fires?

#### You will need to:

- Note that water may not be used as a preventative measure.
- Submit a labelled sketch of an innovative device or design that could be used to assist in fire prevention. In your sketch, please show the size of the device and explain how your device will work in at least two full sentences or next to 2 labels.

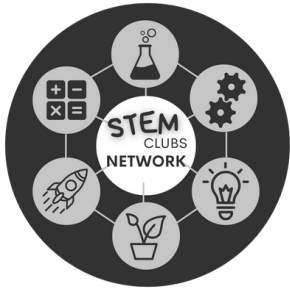
#### Instructions:

- Please answer each question in your own words on a new line.
- Your answer must be a minimum of 3 sentences.
- Take a photo/scan of the sketch(es) and submit them with your answer.
- Show what each part is made of and label what each part will be used for.
- In your sketch, please show the size of the device and explain how your device will work in at least two full sentences or next to 2 labels.
- The due date for you to submit your answer on Google form is by latest 15 October 2023 at 15:00.

Please type this link into your Google search bar to answer

**<https://forms.gle/WHDDn5rMTuARvnrc8>**

(You will be asked for your name and surname, your grade and your school name.)



# MONTHLY CHALLENGE



## INGENIEURSWESE - LAERSKOOL CHALLENGE 6 - SEPT/OCT 2023



### TAFELBERG VELDBRANDE

Elke jaar loop die Tafelberg Nasionale Park gevaar vir veldbrande. Wanneer hierdie veldbrande gebeur, moet die brandweer inderhaas om die brande te blus. Soms is hierdie brande buite beheer en brand meer as 7000 hektaar van die fynbos-plantegroei (<https://www.scidev.net/global/news/wildfire-controlled-burning-environment-pollution/>). Hierdie brande vernietig sommige fynbosspesies waarvan sommige deel is van erfenisplantlewe en dit is ook duur vir die stad om te blus.

### Vraag: Kan daar 'n manier wees om hierdie brande te voorkom?

#### Jy sal moet:

- Let daarop dat water nie as 'n voorkomende maatreël gebruik mag word nie.
- Dien 'n benoemde skets in van 'n innoverende toestel of ontwerp wat gebruik kan word om te help met brandvoorkoming.

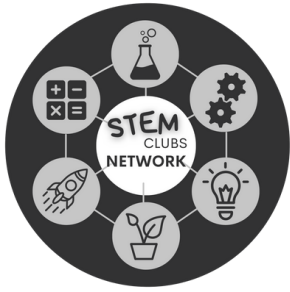
### INSTRUKSIES:

- Beantwoord asseblief elke vraag in jou eie woorde op 'n nuwe reël.
- Jou antwoord moet 'n minimum van 3 sinne wees.
- Neem 'n foto/skandering van die sketse(s) en dien dit saam met jou antwoord in.
- Toon waaruit elke onderdeel gemaak is en benoem waarvoor elke onderdeel gebruik gaan word
- In jou skets, wys asseblief die grootte van die toestel en verduidelik hoe jou toestel sal werk in ten minste twee volsinne of langs 2 byskrifte.
- Die sperdatum vir jou om jou antwoord op Google-vorm in te dien is 15 Oktober 2023 om 15:00.

Please type this link into your Google search bar to answer

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# MONTHLY CHALLENGE

## EZOBUNJINELI - ISIKOLO SEBANGA LANGAPHANTSI CHALLENGE 6 - SEPT/OCT 2023



### IMILILO EYENZEKA ETABLE MOUNTAIN

Nyaka ngamnye iPaka yeSizwe yeTable Mountain iba semngciphekweni womlilo wamadlelo. Xa le mililo yasendle isenzeka, isebe lomlilo kufuneka lingxame liwucime lo mlilo. Ngamanye amaxesha le mililo iye ingalawuleki ize itshise ngaphezu kwehektare ezingama-7000 zezityalo zefynbos (<https://www.scidev.net/global/news/wildfire-controlled-burning-environment-pollution/>). Le mililo itshabalalisa ezinye iintlobo zefynbos ezinye zazo eziyinxalenye yobomi bezityalo zelifa kwaye zikwayindleko esixekweni ukuyicima.

### Ngaba inokubakho indlela yokuthintela le mililo?

#### Kuya kufuneka:

- Qaphela ukuba amanzi akanakusetyenziswa njengendlela yokuthintela.
- Ngenisa umfanekiso ozobe ubhaliwe wesixhobo esitsha okanye uyilo olunokuthi lusetyenziswe ekuthinteleni umlilo.

#### IMIYALELO:

- Nceda uphendule umbuzo ngamnye ngawakho amazwi kungca omtsha.
- Impendulo yakho mayibe zizivakalisi ezintathu.
- Thatha ifoto / isketshi semizobo kwaye uyingenise kunye nempendulo yakho.
- Bonisa ukuba ilungu ngalinye lenziwe ngantoni kwaye uleyibhelishe ukuba ilungu ngalinye liza kusetyenziselwa ntoni na.
- Kumzobo wakho, nceda ubonise ubungakanani besixhobo kwaye uchaze ukuba isixhobo sakho siya kusebenza njani kwizivakalisi ezibini ezipheleleyo okanye ecaleni kweelebhile ezimbini.
- Ngenisa impendulo yakho kwifomu kaGoogle emva kuka-15 Okthobha 2023 ngo-15:00.

Please type this link into your Google search bar to answer

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