# What is the best way to measure and set individual and team goals?

Group goal setting is cooperative rather than competitive. Goals are set by teams by adding up what each team member feels or estimates is a reasonable challenge for them personally.

## Team goals for physical activity are typically set between 480 and 960 miles.

- The <u>480 miles level</u> is considered a minimum for a six-person adult team. 480 miles translates to 30 minutes of moderate-intensity activity, five days a week for each of 6 team members during the 8-week program.
- At this level, each person would need to contribute an average of 80 miles over the 8 weeks (10 miles per week).
- If a team has only five members, then a Team Goal could be set by subtracting 80 from 480. <u>Each team will be different.</u>
- If a team wants to strive for doing an hour of moderately intense physical activity at least 5 days a week (20 miles per team member each week), then the Team Goal would be set at 960 miles.
- Teams can also set their goal for team miles at some level between 480 and 960.
- If a team has one or more children participating, it is appropriate to encourage the child to do 60 minutes, five days a week since this is the current recommendation for children.

## The suggested team goal for fruits and vegetables is about 1600 for the 8-week program period for a team of six adults.

- Per team member, this equates to 280 cups over the 8 weeks, or 5 cups a day, every day.
- If there are only five members on a team, subtract 280 from 1600 to arrive at a Team Goal for fruits and veggies.

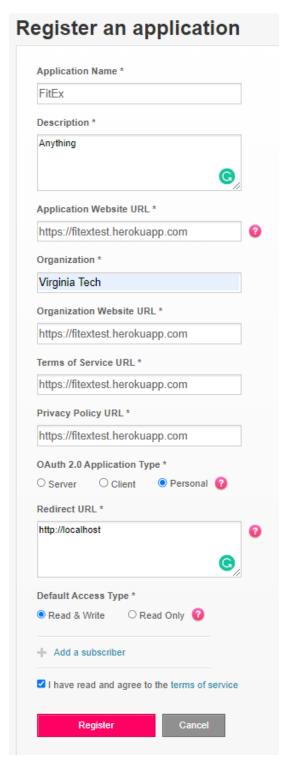
- Five cups a day is recommended as a goal for adults based on the Dietary Guidelines.
- For teams of children aged 5-11 a more appropriate level would be about 196 cups per team member for the 8-week period (or 3.5 cups per day for each child).

### What is Fitbit Access Token?

Access tokens are used in token-based authentication to allow the FitEx system to access Fitbit API. The Fitbit API will enable developers to interact with Fitbit data in their applications, products, and services. We use Fitbit API to retrieve Fitbit user data collected by the Fitbit trackers & smartwatches, Aria & Aria 2 scales, and manually entered log data.

### **How to get my Fitbit Access Token?**

- 1. Register or log into your Fitbit account on <a href="https://dev.fitbit.com/apps">https://dev.fitbit.com/apps</a> and click "Manage My Apps"
- 2. Click "Register a new app" next to the page title.
- 3. Enter the information that is **exactly the same** as shown in the below image:
  - OAuth 2.0 Application Type: Personal
  - URL: <a href="https://fitextest.herokuapp.com">https://fitextest.herokuapp.com</a>
  - Redirect URL: <a href="http://localhost">http://localhost</a>
  - Default Access Type: Read & Write



4. Click "OAuth 2.0 tutorial page"

5. Choose "<u>Implicit Grant Flow</u>" as the Flow Type. Clicked on all scopes and enter <u>604800</u> as the expiration time. Your settings should be like this:

1: Authorize				
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low type:  Im	plicit Grant Flow O	Authorization Code Flow		
- Enter all of you	ur application's relev	ant data below. You can find this d	data at dev.fitbit.com.	
Fitbit URL:		www.fitbit.com		
Fitbit API URL:		api.fitbit.com		
OAuth 2.0 Client	t ID:	238K3X		
Client Secret:		b69277e3c7296838913c9df76dcfa		
Redirect URI:		http://localhost		
- Choose below	what user data you	d like to have access to.		
elect Scopes				
activity	heartrate	location	nutrition	
profile	settings	✓ sleep	✓ social	
	✓ spo2	breathingrate	temperature	
✓ weight		hour for the authorization code flo	w, and 1 day for the implicit grant	
✓ weight  - The default ex	piration times are 1		values; see the docs for details.	
✓ weight  - The default ex flow.The expirat	tion time for the impl	icit grant flow can be set to certain		
✓ weight  - The default ex	tion time for the impl	icit grant flow can be set to certain		
weight  The default ex flow.The expiral expires In(ms):	604800	URL for you, all you need to do is	just click on link below:	

## 6. Click the generated authorization URL

## OAuth 2.0 tutorial page

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	-	Authorization Code Flow		
	our application's relev	ant data below. You can find this	data at dev.fitbit.com.	
Fitbit URL:		www.fitbit.com		
Fitbit API URL:		api.fitbit.com		
OAuth 2.0 Client ID:		238K3X		
Client Secret:		b69277e3c7296838913c9df76dcfa		
Redirect URI:		http://localhost		
- Choose below	v what user data you	'd like to have access to.		
Select Scopes				
activity	heartrate	location	nutrition	
profile	settings	✓ sleep	social	
weight	✓ spo2	breathingrate	temperature	
- The default en flow.The expira Expires In(ms):	ation time for the impl	hour for the authorization code fli icit grant flow can be set to certai	ow, and 1 day for the implicit grant in values; see the docs for details.	
- We've genera	ated the authorization	URL for you, all you need to do	is just click on link below:	

7. On the permission page, please choose 1 year for a lasting time and allow all data to be retrieved.



FitEx by Virginia Tech would like the ability to access and write the following data in your Fitbit account. for 1 year

Warning! This app is not using HTTPS to section your permission.

Please Choose

1year for here



- sleep
- oxygen saturation (SpO2)
- Iocation and GPS
- temperature
- activity and exercise
- food and water logs 6
- profile 6
- weight 6
- friends 6
- heart rate
- breathing rate
- Fitbit devices and settings

If you allow only some of this data, FitEx may not function as intended. Learn more about these permissions <u>here</u>.





The data you share with FitEx will be governed by Virginia Tech's <u>Privacy Policy</u> and <u>Terms of Service</u>. You can revoke this consent at any time in your Fitbit <u>account settings</u>.

8. After you click Allow, you will be redirected to an empty page, which means you have successfully authorized. Please copy and paste the URL on that blank webpage. Intercept the access token in that URL (should be between "#access\_token=" and "&user\_id="). Sample below:

#### URL:

http://localhost/#access\_token=eyJhbGci0iJIUzI1NiJ9.eyJhdWQi0iIyMzhLM1giLCJzdWIi0iJCNFRaSFciLCJpc
3Mi0iJGaXRiaXQiLCJ0eXAi0iJhY2Nlc3NfdG9rZW4iLCJzY29wZXMi0iJ3aHIgd251dCB3cHJvIHdzbGUgd3NvYyB3YWN0IH
dveHkgd3RlbSB3d2VpIHdzZXQgd3JlcyB3bG9jIiwiZXhwIjoxNjYzMDA4MzI4LCJpYXQi0jE2NjI0MDM1Mjh9.myxbeu5v3n
JK7PXuCpCRwf94ilhVMRG4cLVyxCaxkYE&user\_id=B4TZHW&scope=oxygen\_saturation+respiratory\_rate+activit
y+social+weight+settings+location+sleep+nutrition+heartrate+profile+temperature&token\_type=Bearer
&expires in=604800

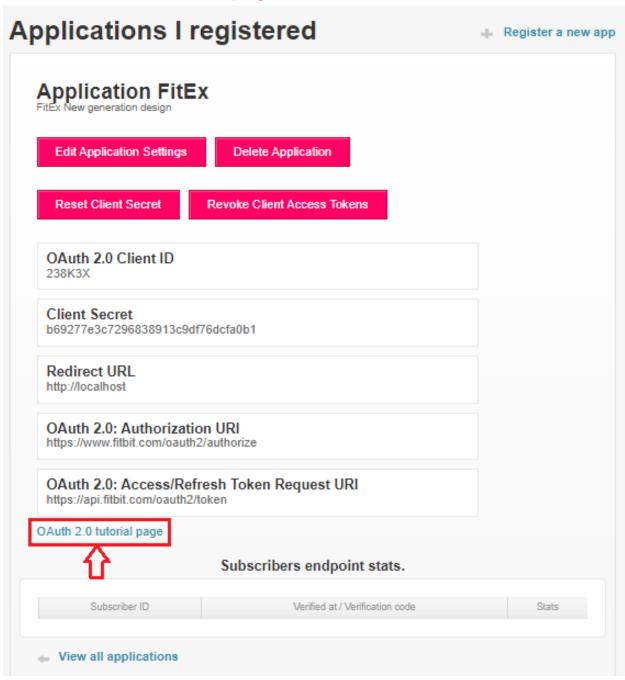
#### Access Token:

eyJhbGciOiJIUzI1NiJ9.eyJhdWQiOiIyMzhLM1giLCJzdWIiOiJCNFRaSFciLCJpc3MiOiJGaXRiaXQiLCJ0eXAiOiJhY2Nl c3NfdG9rZW4iLCJzY29wZXMiOiJ3aHIgd251dCB3cHJvIHdzbGUgd3NvYyB3YWN0IHdveHkgd3RlbSB3d2VpIHdzZXQgd3Jlc yB3bG9jIiwiZXhwIjoxNjYzMDA4MzI4LCJpYXQiOjE2NjI0MDM1Mjh9.myxbe u5v3nJK7PXuCpCRwf94ilhVMRG4cLVyxCaxkYE

## My Fitbit Sync Page shows 401 Error, what should I do?

The most reason for this case is that your Fitbit Access Token has expired. To update your Fitbit Access Token, you have to follow the instruction below:

- 1. Log into <a href="https://dev.fitbit.com/apps">https://dev.fitbit.com/apps</a> and click "Manage My Apps"
- 2. Open your registered applications
- 3. Click "OAuth 2.0 tutorial page"



### 4. Click the generated authorization URL

#### OAuth 2.0 tutorial page For a detailed explanation of OAuth 2.0, see the Fitbit API documentation. 1: Authorize - First, choose the type of flow your application will use. Implicit grant flow is for use in client-side applications that cannot keep a secret because they distribute their source code to the client (web apps, mobile apps). The authorization code flow is for server-side applications that can keep a secret. If possible, use the authorization code flow, because while both flows are secure, it provides additional security. Flow type: Implicit Grant Flow Authorization Code Flow - Enter all of your application's relevant data below. You can find this data at dev.fitbit.com. Fitbit URL: www.fitbit.com Fitbit API URL: api.fitbit.com OAuth 2.0 Client ID: 238K3X Client Secret: b69277e3c7296838913c9df76dcfa Redirect URI: http://localhost - Choose below what user data you'd like to have access to. Select Scopes activity heartrate Iocation nutrition settings social profile sleep weight ✓ spo2 breathingrate temperature - The default expiration times are 1 hour for the authorization code flow, and 1 day for the implicit grant flow. The expiration time for the implicit grant flow can be set to certain values; see the docs for details. Expires In(ms): 604800 - We've generated the authorization URL for you, all you need to do is just click on link below:

https://www.fitbit.com/oauth2/authorize? response\_type=token&client\_id=238K3X&redirect\_uri=http%3A%2F%2Flocalhost&scope=activity%20heartrate%20location%20nutrition%20profile%20settings%20sleep%20social%20weight%20 oxygen\_saturation%20respiratory\_rate%20temperature&expires\_in=604800

5. On the permission page, please choose 1 year for a lasting time and allow all data to be retrieved.



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Warning! This app is not using HTTPS to section your permission.



Please Choose 1year for here

- oxygen saturation (SpO2)
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6. After you click Allow, you will be redirected to an empty page, which means you have successfully authorized. Please copy and paste the URL on that blank webpage. Intercept the access token in that URL and upload it to your FitEx System. Sample below:

#### URL:

http://localhost/#access\_token=eyJhbGciOiJIUzI1NiJ9.eyJhdWQiOiIyMzhLM1giLCJzdWIiOiJCNFRaSFciLCJpc
3MiOiJGaXRiaXQiLCJ0eXAiOiJhY2Nlc3NfdG9rZW4iLCJzY29wZXMiOiJ3aHIgd251dCB3cHJvIHdzbGUgd3NvYyB3YWN0IH
dveHkgd3RlbSB3d2VpIHdzZXQgd3JlcyB3bG9jIiwiZXhwIjoxNjYzMDA4MzI4LCJpYXQiOjE2NjI0MDM1Mjh9.myxbeu5v3n
JK7PXuCpCRwf94ilhVMRG4cLVyxCaxkYE&user\_id=B4TZHW&scope=oxygen\_saturation+respiratory\_rate+activit
y+social+weight+settings+location+sleep+nutrition+heartrate+profile+temperature&token\_type=Bearer
&expires\_in=604800

#### Access Token:

eyJhbGciOiJIUzI1NiJ9.eyJhdWQiOiIyMzhLM1giLCJzdWIiOiJCNFRaSFciLCJpc3MiOiJGaXRiaXQiLCJ0eXAiOiJhY2Nl c3NfdG9rZW4iLCJzY29wZXMiOiJ3aHIgd251dCB3cHJvIHdzbGUgd3NvYyB3YWN0IHdveHkgd3RlbSB3d2VpIHdzZXQgd3Jlc yB3bG9jIiwiZXhwIjoxNjYzMDA4MzI4LCJpYXQiOjE2NjI0MDM1Mjh9.myxbe u5v3nJK7PXuCpCRwf94ilhVMRG4cLVyxCaxkYE